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FIGURE 318

GAGCCTGACTTCAGCGCTCCCACTCTCGGCCGACACCCCTCATGGCCAACCGTTACACCATGGATCTGACTGCCA
TCTACGAGAGCCTCTGTGCGTGAGCCCTGACGTGCCGTGCCATCCGACCATGGAGGGACTGAGTCCAGCCCAG
GCTGGGGCTCCTCGGGACCCTGGAGCCTGAGCCCCCTCCGACTCCAGCCCCTGCTGGGTGCCCCCACCCCTGGCTTCGCACCCTGGCTG
GCCGCTCCACCAGCCTAGTGGAGGGCCAGCTGTGGCTGGGTGCCCCCACCCCTGGCTTCGCACCCTGGCTG
CCCCCTGGGCCCTGAGCTGCAACCTCACCCACTTCGCCCAGTCAACCTCACCCCTCGCCTACAAGA
CTGAGCTATGTGCGGACCTTCTCAGAGAGTGGCGCTGCCGTACGGGCCAAGTGCCTGAGTTGCCATGGCTGG
GCGAGCTGCGCCAGGCCAACGCCAACCCAAATAAACAGACGGAACCTGTGACAAGTTCTACCTCCAGGGCCGCT
GCCCTACGGCTCTGCTGCCACTTCATCCACAAACCTAGCGAACGACCTGGCGGGGGCACCTCCGACCACCA
TTCGCCAGAGCATCAGCTTCTCCGGCTGCCCTTGCCGCGGACCTCACCACCAACCCAGGCCTGCCGGCC
CTTCCCTGTCCTCCAGCTCCTCTGCCCTCCAGCTCCCCACCACCACTGGGACCTCCACTGTGACCCCTCTG
CCTTCTGCTGCCCTGGCACCCCCCTGGCTGAAGAGACCCACCCAGTCTGTTGCCCTCTGCCGAAGGG
CCACTCCATCAGCGTCTGGGGCCCTGGGTGGCTGGTTCGGACCCCTGTACAGTCCCTGGGATCCGACC
CTGATGAAATATGCCAGCAGCGGAGCAGCCTGGGGCTCTGACTCTCCGTCTCGAGGGGGAGTTTGAC
CACCCAGCCGTGGCAGCCCCCGGCACTCCCCATCTCAATCGCATCTGTGAGTGACAAGTGACT
GCCCGGTAGATCAGCTGGATCTCAGCGGGAGGCCACGTCTTGCACTGTGGTCTCTGCATGGACCCAGGGCT
GTGGGGACTTGGGGACAGTAATCAAGTAATCCCCCTTCCAGAATGCATTAACCCACTCCCTGACCTCACGCT
GGGGCAGGTCCCCAAGTGTGCAAGCTCAGTATTCAATGATGGGGGATGGAGTGTCTCCGAGGTTCTGGGGG
AAAAAAAATTGTAGCATATTAAAGGGAGGCAATGAACCCCTCCCCCACCTTCCCTGCCAAATCTGCTCC
AGAATCTTATGTGCTGTGAATAATAGGCCTTCACTGCCCTCCAGTTTATAGACCTGAGGTTCCAGTGTCTCC
TGGTAACTGGAACCTCTCTGAGGGGGATCCTGGTGTCAAATTACCCCTCAAAGCAAGTAGCCAAGCCGTT
GCCAAACCCACCCATAATCAATGGCCCTTATTATGACGACTTATTATCTAATATGATTATAGTAT
TTATATATATTGGGCGTCTGCTTCCCTGTATTCTTCTTTGTAAATTGAAAACGACGATATAATT
ATTATAAGTAGACTATAATATATTAGTAATATATTACCTAAAAGTCTATTGTGTTGGCATT
TTAAATAAACAACTGAGTGT

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FIGURE 319

MDLTAIYESLLSLSPDVPVPSDHGGTESSPGWGSSGPWSLSPSDSSPSGVTSRLPGRSTSLVEGRSCGWVPPPPG
FAPLAPRLGPELSPSPTSPATSTTPSRYKTELCRTFSESGRCRYGAKCQFAHGLGELRQANRHPKYKTELCHKF
YLQGRCPYGSRCHFIHNPSEDAAPGHPPVLRQSISFSGLPSGRRTSPPPGLAGPSLSSSFSPSSSSPPPGDL
PLSPSAFSAAPGTLARRDPTVCCPSRRATPISVWGPLGGLVRTPSVQSLGSDPDEYASSGSSLGGSDSPVFE
AGVFAPPQPVAAPRRLPIFNRISVSE

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FIGURE 320

GCACGATGGAGCTCAATCGGCACTGGGTATGACCTGTCA~~GCC~~TACATTCTCTCCTGACGGAAGAGTTTCAAG
TTGAATATGCTATGAAGGCTGTGGAAAATAGTAGTACAGCTATTGGAATCAGATGCAAAGATGGTGTTCATTTG
GGTAGAAAAATTAGCCTTCTAAACTTATGAAGAAGGTTCCAACAAAAGACTTTAATGTTGATCGGCATG
TTGGAATGGCAGTAGCAGGTTGTGGCAGATGCTCGTTCTTAGCAGACATAGCAAGAGAAGCTTCAACT
TCAGATCTAACCTGGCTACAAACATTCCACTAAAACATCTTGACAGACAGAGTGGCCATGTATGTGCATGCATATA
CACTCTACAGTGCTGTTAGACCTTTGGCTGCAGTTCATGTTAGGGCTTACAGTGTGAATGACGGTGCAC
TCTACATGATTGACCCATCAGGTGTTCATCGTTATTGGGCTGTGCCATGGCAAAGCCAGGCAAGCTGCAA
AGACGGAATAGAGAAGCTTCAGATGAAAGAAATGACCTGCCGTGATATCGTTAAAGAAGTTGCAAAATAATT
ACATAGTACATGACGAAGTTAAGGATAAAGCTTTGAACACTAGAACTCAGCTGGGTTGGTGAATTAAC
GACATGAAATTGTTCCAAAAGATATAAGAGAAGCAGAGAAATATGCTAAGGAATCTCTGAAGGAAGAAGATG
AATCAGATGATGATAATATGTAACATTACTCCAGCATCTATTGTATTAAATTCTACTCCAGTCCAATGTAA
CTATTTAGCCCTG

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FIGURE 321

MSSIGTGYDLSASTFSPDGRVFQVEYAMKAVENSSTAIGIRCKDGVVFGVEKLVLSKLYEEGSNKRLFNVDRHVG
MAVAGLLADARSLADIAREEASNFRSNFGYNIPILKHLADRVAAMYVHAYTLYSAVRPGCSFMLGSYSVNDGAQLY
MIDPSGVSYGYWGCAIGKARQAAKTEIEKLQMKEMTCRDIVKEVAKI IYIVHDEVKDKAFELELSWVGELTNGRH
EIVPKDIREEAEKYAKESLKEEDESDDDNM

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FIGURE 323

MSGSFELSVQDLNDLLSDGSGCYSLPSPCNEVTPRIVGNASVAQDIPKLQKLGITHVLNAEGRSFMHVNTNA
NFYKDSDLGIKANDTQEFLSAYFERAADFIDQALAQKNGRVLVHCREGYRSRSPTLVIAYLMMRQKMDVKSA
LSIVRQNREIGPNDGFLAQLCQLNDRLAKEGKLKP

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FIGURE 325

MAPRSARRPLLLLLPVAAARPHALSSAAMFMVKNGNGTACIMANFSAAFSVNYDTKSGPKNMTFDLPSDATVVLNRSSCGKENTSDPSLVIAGRGHTLNLNFRNATRYSVQLMSFVYNLSDTHLFPNASSKEIKTVESTITDIRADIDK
KYRCVSGTQVHMNNVTVLHDAIQAYLSNSSFSRGETRCEQDRPSPTTAPPAPPSPSPSPVPKSPSVDKYNVSG
TNGTCLLASMGLQILNLYERKDNTTVTRLLNINPNKTSASGSCGAHLVTLELHSEGTVLLFQFGMNAASSRFFL
QGIQLNTILPDARDPAFKANGSLRALQATVGNSYKCNAEEHVRVTKAHSVNIKVWVQAFKVEGGQFGSVEECL
LDENSTLIPIAVGGALAGLVLIIVLIAYLVGRKRSHAGYQT

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FIGURE 326A

AAGCGGCTCGGGCTCGGGCTGGCTCAGAGTGCACGGGGGGCGTGGGGCGGTGCTGAGGAAGCTGAAGCCGTGGCC
 AGCTCGACTCCGGACAGTCAGCAGCAGCACGGGGAACCGGCAGCCGGAGCAGTCGGAGCAGAAGCAGCA
 GCAGCAGCAGCAGCCCTGCCGTTGCCGGAGCGCAGCCAGCCGGCATGGCGTTGTCATGCCGCTGAATGGGC
 TGAAGGAGGAGGACAAAGAGCCCCCTCATCGAGCTTCGTCAAGGCTGGCAGTGATGGTAAAGCATAGGAAACT
 GCCCCTTCCCAGAGGCTTCATGATTCTGGCTAAAGGAGTTGATTTAGTGTGACGACTGTTGACCTGA
 AAAGGAAGCCAGCAGACCTGCCAGAACTTGGCTCCCGGGACCCACCCACCATTATAACTTCAACAGTGAAGTCA
 AAACGGATGTAATAAGATTGAGGAATTCTGAAGAGGTCTTATGCCCTCCAAGTACTAAAGCTTCACCAA
 AACACCCAGAATCAAATACTGCTGGAATGGACATCTTGCCAAATTCTGCATATATCAAGAATTCAAGGCCAG
 AGGCTAATGAAGCACTGGAGAGGGTCTCTGAAAACCCCTGCAGAAACTGGATGAATATCTGAATTCTCCTCTCC
 CTGATGAAATTGATGAAAATAGTATGGAGGACATAAAGTTCTACACGTAAATTCTGGATGGCAATGAAATGA
 CATTAGCTGATTGCAACCTGCTGCCAAACTGCATATTGTCAAGGTGGTGGCAAAAAATATCGCAACTTGTGATA
 TTCCAAAAGAAATGACTGGCATCTGGAGATACTTAACTAATGCATACAGTAGGGACGAGTTACCAATACCTGTC
 CCAGTGATAAGGAGGTTGAAATAGCATATAGTGTAGTAGCCAAAAGACTCACCAAGTAAAATCGCGTTGTAAA
 GAGATGTCTTCATGTCTCCCTAAGAATACGCTTTCTAACAGGCTACTCCTCTGTAGAGCAGAAATTGTA
 TTTGCAAGAACATGCAGTTATTGAAGATTAGGATCAAGGATAGACAAGGTATAGTAGTTATCTAAATATACA
 CTCCTAACAGCAGTATTATTAAAATCCTTACCCCTGGCTACCTCCCTACCCGGGTTCCCTCTCTTAAATTGG
 AGACACTCCACCACAAACTTCACTTAGAGGTAGCTGCCATCTCAGGAGCCCTCACCATTGTGTCATTC
 ACTGTGTATAGATGGCAGAACCTTGAGGTGCAATGTTAATTGTTAAAATAGTAGCCACGACTTATCAGGCA
 GCCCCTAACACTGGCATAATGCATGGTACAAGAAATATTATGTTTTGGAAATTGTAATATTAGTAGGA
 GTATATGAAAGGATTGCTACTGTATCAGAAATATTGTTCAATTAGTCTATCTGGATATGACTAACGAATAT
 TACCAACAGAGAAGAGAGCTTCACTACAGATTGCTATATTGTTAGATAGATTTTACT
 TTTGCCTAAAGCATTATCCTCATACCAATTGTAACATCTGACACCATGTTAGAAGCTAAAAGTTAGAGGGAG
 TGAGCGTTCTCAAGACCTCCTCAAGCATTATCTTCTAGAGGAAACTGATGGGCACCTGATACTCTGTCT
 AAATACGTTGTTATATGTGTTTGCCCTGTGCCATTGGAACCTTATTGCTATTCTTAAAGCT
 TGTTTACGTAATCATAGAGCTTGCTATTGTCATCTGTTAGCAACTACATAACTGATTTAGTTGACT
 TAGCTATAGCAGTACAATGATTAGTAATGAAAATTAAACACAGAAATTACACTAACAGGAATGAAGGGGGTTG
 TCAAAATATCAAGTAAATTGTTCAAAGTACATTAAATGTAGATGACCTAAAGAATCGTTATCCATCCTA
 TATAAAAGAAAGATAAAACACAGGTACCAATTCTCATTCACCCATTACCTGTATAGAGGATTGTTCAT
 TCCTTGGGACTAAGTTAGTTAGTGTGAGTGTATTACTGTAGTTGCCTGATCTCACTCATTGCACTTC
 CTGGAGTTAAATTCCAACAGCCATGTTGAGGAATAGCACTCTGCATGTTTGTGTTTCGGGTTTT
 TTTAATTGAAAGCCCTAAACCAGGAATTATTGTTCTAACAGGAGGATGAACCTGCTGAAAATAAAACTTGCT
 ATGTATTACTTTAAAAGACAAAAGCAAAACCAGACTTCTACGTACTACTCCAAAGACTGTGATTGTA
 CTATAATACATTGGTAATTGTTATACCTAATTGTTAGGAAGTGTATTCTCATAGGCTGTTCTGTA
 AATTGTTAAGTTATTGCTTAAAATGGCAGTGTCTCCACCTTGATATGCTAACATTAGTAAGCACTGGCTT
 TATGAAAGCGGCTTTATAAGTATCGCATTGAGCCTATCATTAAATTAGCTTAGTATGAAAGATAAGAA
 AATCTCCATGTTGATCCATTGGCTCAGGAAGATTCTTGCCTTACCTTCTAGAACACTTTATTGCTTATCA
 AAAGTTGAGTACCCGCTTGGTTTTTTGGTAATTAAATATTGTATGATTATCTGGTCAAGGAAGATGCAC
 TATTCACTATTGAGAAATTATTGCACTGAGTGGTTAGTGGGTGAAAATGCCCCTGACACTACACA
 GGCAGGCATTATCATTCTCACCTACTTTAAATAGGCAACTTGGGATTCTCTGGTATTCTGAACCTTG
 CCTCATAGCTAAAGTATAAAAAGATTCAAGAGCAGTGAGGTTGTTCCAGTGAATGGTGGACTGAGTG
 GTGCGAGGTGGAGGGCTAACAGAGGAAACTACATTCTCAGAACATACAGTGATGAAATTCAACTACATCCA
 CAAATATTTCATTGGATATTCTCTGTTTATTAAACCAGTGATTACACCTGGCCATCCCTCTAAATGTTC
 TAGGAAGGCATGTCATTGTTGATGAAAGACAGAAATTATTCTCTGTTAGAACACAGATAACCACTTAT
 CAGGGAGTTAGTCAAATGAAATGGAAATTGGTAAATGGACAAAAGCTAGCTAGTAAAAGGACGACCCAGCAAC
 ATGCTTAAACCCATTGTATGTTGAAAGAGCATAGTTAACATCTGAGAAATTGGACATAAAGTTTC
 ATGGTAGACAGTCATGCAGTATGACATAATGAAATAATCTGATTATTATTTACAACATACATCCA
 TTCCCTTCATTAAACACCTTTGTGTTTACTCAGTGAGGAGATTGGAGTCATGAAATGGATCTGTTTCAAG
 AGATTCTGAGAAATTGGTATTGCACTGGAAAGCTCTATTCTAGTTGATAAAACTCCCTTTTGATG

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FIGURE 326B

TAGATGCAGATATTCTATACAGTTCTGGTCTTTACTAGGACTGTAAACTTTGTGATAAAATTCAAATAAGA
TTTATTCTTGTAATTTGGCTTCACAATTATCTTAAATCCTGAGCAATCTGTATACAATTAAAGAGATT
TCTGACATTATTCTTACACTAAATGGATCAACTCTAGGATTAGGCATGTTAACTCTGTGTGTTGAATCT
CTCCAGAGTTGCATGTAGATAGCATTATTCTGCCCTAAACCCATTAGAAAATAACTACAAAGTAAAAAT
GTAGAGGAAATAGAAATGTATTTTCATGAACATTTGATACAAATTCATCATTAAATGATTCCAATTCT
TGCATTAATTGAAATTAAAGCATTTAACAGAGAGGGGAGCATCATTATTGGTACATGTGGCTTTAAAA
ACTCCATCCTTATAAAATAGTCAAGGTTGGCCACACAAAGTATATTATCATGGAAAAATTCAACTCCTC
AAGCCGTAATGTTGAACAGAATTGGAGTATTTCTTATAATTCTTGAACAGGAAATGAAAGCTTATTATAGA
ATGCATGTATTTCTTATCTTGAACATCAGCACCAAGTATATTGCTGGCAGCTATTGTATTAAAAAATAAG
TATATTTCACTACAAAAA

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FIGURE 327

MALSMPLNGLKEEDKEPLIELFVKAGSDGESIGNCPFSQRLFMILWLKGVVFSVTTVDLKRPADLQNLAPGTHPPFITFNSEVKTDVNKIEEFLEEVLCPPKYLKLSPKHPESTAGMDIFAKFSAYIKNSRPEANEALERGLLKTLQKLDEYLNNSPLPDEIDENSMEDIKFSTRKFLDGNEMLADCNLLPKLHIVKVVAKKYRNFDIPKEMTGIWRYLTNSRDEFTNTCP PSDKEVEIAYSDVAKRLTK

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FIGURE 328

TGCTGCGAACCGACGTGGTCCGGGCGCGTTCGGGTCTGGCGCTGCAGCCGGAGTTCAAACCTAAGCAGCTG
GAAGGAACCATGGCCAACTGTGAGCGTACCTTCATTGCGATCAAACCAGATGGGGTCCAGCGGGTCTGTGGGA
GAGATTATCAAGCGTTTGAGCAGAAAGGATTCCGCCTTGGTCTGAAATTGCAAGCTCCGAAGATCTT
CTCAAGGAACACTACGTTGACCTGAAGGACCGTCCATTCTTGCCGGCTGGTCAAATACATGCACTCAGGGCCG
GTAGTTGCCATGGTCTGGGAGGGGCTGAATGTGGTGAAGACGGGCCGAGTCATGCTGGGAGACCAACCTGCA
GACTCCAAGCCTGGGACCATCCGTGGAGACTTCATGCAACAAGTTGGCAGGAACATTATAACATGGCAGTGATTCT
GTGGAGAGTGCAAGAGAAGGAGATCGGCTGTGGTTCACCTGAGGAACGTGGTAGATTACACGAGCTGTGCTCAG
AACTGGATCTATGAATGACCAGGAGGGCAGACCACATTGCTTTCACATCCATTCCCTCCATGGCAGA
GGACCAGGCTGTAGGAAATCTAGTTACAGGAACCTCATCATAATTGGAGGGAAAGCTTGGAGCTGTGAG
TTCTCCCTGTACAGTGTACCATCCCCGACCACATGATTAAAATGCTTCCTCCCAGC

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FIGURE 329

MANCERTFIAIKPDGVQRGLVGEIIKRFEQKGFRLVGLKFMQASEDLIKEHYVDLKDRPFFAGLVKYMHSVPVA
MVWEGLNVVKTGRVMLGETNPADSKPGTIRGDFCIQVGRNIIHGSDSVEAEKEIGLWFHPEELVDYTSCAQNWI
YE

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FIGURE 330A

GCGGCGGTGGCGCGGAGACCCGAACATGGCGACCGCGCGCACCTTCGGGCCCGAGCGGGAGGCCGAGCGGCC
 AGGAAGCGCGCTCGTGGCTCGGAGCTGTGGACACTTATACGTTTACATCATCCAGGTACTGATGGCAGCC
 ATGAGTGGACAGTAAAGCACCGCTACAGCGACTTCCATGACCTGCATGAAAAGCTCGTTGAGAGAGAAAGATTG
 ATAAAAACCTGCTTCCGCCAAAAAGATAATTGGGAAAAGCTCAAGAACGTTGGTGGAGAAGAGGGAGAAGGATC
 TGGAGGTCTACCTCAGAACGCTCTGGCTGCCCTGGCGTGAACCCCCAGAGTACTGGCCCACCTCTGCATT
 TTCACTTCTATGAGATAATGGCATCACCAGCGGACTGGCTGAAGAGCTTTGAGAAAGGAGAACAGCTCTGG
 GGGCGGGCGAGGTCTTGCCATTGGACCCCTGCAGCTGTATGCCGTACGGAGCAGCTGCAGCAGGGAAAGGCCA
 CGTGCGCCAGTGGGATGCCAAGACCGACCTCGGGCACATCTGGACTTCACCTGTGCCTTAAGTACCTTAAGG
 TTTCTGGCACAGAACGGACCTTTGGGACCAAGCAACATTCAAGGAGCAGCTCCTGCCCTGACCTATCAATATTCA
 AGTCCCTGCATCAGGTGGAGATAAGTCACTGTGATGCTAACGACATCAAGGGCTGGTGCATGAAAGCCCACCT
 TAGCCACGCTGAGTGTCCGCTCTCAGAACCTCGATGAAGGAAGTCCTTGTGAAGCCTCAGAACATTGATG
 AGTGGGAGCCTGAAGGCACAACCCCTAGAACGGCCCTGTGACTGCCGTACCCCCACTGGCAGGCATTGACCACGC
 TTGACCTGAGCCACAACAGCATCTCGAGATCGACGAGTCTGTGAAACTGATCCCCAAAGATTGAGTCTGGACC
 TGAGTCACAATGGATTGCTGGTGTGGACAATCTGCAGCACCTGTATAACCTTGTGCATCTGGACCTGTCCCTACA
 ACAAGCTCTCCCTGGAAAGGGCTTCACACCAAGCTGGGAACATCAAGACCTAACCTGGCAGGCACACCTCC
 TAGAGAGTCTGAGTGGCCTGCACAAGCTCTACTCACTGGTCAACCTGGATCTCCGGGACAACAGGATCGAACAGA
 TGGAGGAGGTCCGGAGCATAGGCAGCCTCCGTGCTGGAGCACGTGCTCTGCTGAACAAACCTCTGAGCATCA
 TCCCCGACTACCGGACCAAGGTGCTGGCTAGTCGGAGAGAGGGCCTCAGAGGTCTGTGGATGACACAGTGA
 CCACAGAGAACGGAGCTGGACACTGTGGAGTGCTGAAAGCAATTCAAGAACGCCAAGGAGGTCAAGTCAAACACTGA
 GCAACCCAGAGAACAGGGTGGTAAGACTCCGGCTCTCAGCTGCCCTGCATCAGACCCAGCAGCTCCCC
 CCACTGTGGCTCCCGCATCTGCCTCCCTGCCCATCCTCTCAACCAAGGAATCATGTTGTTCAGGAGG
 AGGCCCTGGCCAGCAGCCTCTGCTTCACTGACAGTCTGACTCCCCGAGCACCAGCCATTGCCAGGGATGTTCTG
 ATTCCCTGGAGTCATCCCTCGGGGACAGGCAGCTCCGATGATTAAAGGGACGTGCCAGGAGCTGTTGGTGGT
 CAAGCCCCAGAACATGCCGAGCCGGAGGTCCAGGTGGTGCCTGGCCAGATCATCTCCTGCCCTCACCT
 GCATTGGCTACACGGCCACCAATCAGGACTTCATCCAGCGCCTGAGCACACTGATCCGGCAGGCCATCGAGCGGC
 AGCTGCCCTGGATCGAGGCTGCCAACCAGCAGGGAGGAGGGCAGGGTGAACAGGGCGAGGAGGAGGAGTGG
 AGGAGGAAGAACGGAGGAGCTGGCTGAGAACCGCTACTTGAATGGGCCCCAGACGTGGAGGAGGAGGAGG
 GAGGAGGCCAGGGGAGGAAGAGGAGGAGGAAGAGGAGGATGAAGAGGCCAGGGAGGCCCTGGCTCTGGAAAT
 GGGCCCTGGCGGGACGAGGACTTCTGCTGGAGCACATCCGCATCTCAAGGTGCTGTGGTCTTCTGATCC
 ATGTGCAGGGCAGTATCCGCAGTTGCCGCCCTGCCCTGTGCTCACCGACTTCGGCATCGCAGTCTTGAGATCC
 CGCACCAAGGAGTCTGGGGCAGCAGCCAGCACATCCTCTCCCTGCCCTTGTCTTTGCCCTGCCATGGCG
 ACCTCACCGAGTTGGCTCTCATGCCAGCTGAGCTGTCTGGTCTCAAGGTACGGCACAGTGAAGAACACGCTCT
 TCATTATCTGGACGCCAACCTGCACGAGTCCACGCCAGCTGCCCTGAGGAGTCTGCCAGCTGCTCACCTCT
 CCATGCTGTAGCCCCATCCTCTACGGCAGCCACACCAGCCTGCCAGGAGTCTGCCAGCTGCTCACCTCT
 ACAAGGTGGCTGGGGCTGCCAGGAGCGCAGCCAGGGCTGCTCCCCGTCTACCTGGTCTACAGTGACAAGCGCA
 TGGTGCAGACGGCCCGGGGACTACTCAGGCAACATCGAGTGGCCAGCTGCACACTCTGTCAGCCGTGCC
 GCTCCTGCTGCCGCCCTCTGAGGCCGTCAGTCCGCCCATCCCCACTGGCTGCTCACGCCAGCACC
 TCAACGTCAAGGCCAGTTCAACCCCATGCCAACCGTGGCACCCACAACGCTGCAACCGCAACAGCTCA
 AGCTCACCGCTGTGCCGCTCCACCGTGTGGACCCCCACACGCCAGCTGTACCCAGGCCCTGGGGGCCCTTG
 CTGATGCCACGTGCTAGAGCTGCTGTGGGTACCGCTTGTCACTGCCATCTCGTGTGCCCTGGGG
 TCCACTTCTGCCGTCTACAACCAGCTGCCGGCTCGCTGCCAGGACCTGAAGACTGTGGTCTGCCAACAGACCC
 CGGGACGGGAGGCAGCCCCAGGGCTCTTGCGGATGGCCAGGCCAGGCCAGCAATGACCAGC
 GTCCCCCAGGAGGTCCCGAGCAGAGGCTCTGGCCCCGGCCCAAGTGGAAAGTCCAGCCAGGCCCTGCC
 CAGCCTCAGGCCAGCGAAGACTCCGGCCCCAGCAGAGGCCCTCAACTTCAGCTTGGTCCAGAGGAGACGCCAG
 TGGAAGCTCCAGCCCCACCCCCAGCCAGGGCCCTGCCAGTACCCGAGTGAGCACCTCATCCAGGCCACCTCGG
 AGGAGAACATCAGATCCCCCTGCCACTTGCTGCCCTGCCCTGCCAGCTGCCAGGCCAGGCCAGCGCCA
 TCATCGAGCTTCCACAGCAGCATTGCTGAGGTTGAAAACGAGGAGCTGAGGCCACCTCATGTTGCTCTGG
 TGTTCTACCAAGACCCAGGGCTGGAGGTGACTGCCCTGCCAGTGTACTTTGTGCTCC

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FIGURE 330B

ACGACGGCCTCCGCCGCTACTTCTCAGAGCCACTGCAGGATTCTGGCATCAGAAAAACACCGACTACAACAACA
GCCCTTCCACATCTCCAGTGCTTCGTCTAAAGCTTAGTGCACCTGCAGTCAGTCATGTGGGCTTTCGACC
AGCATTCCGGCTGACGGGTCCACCCGATGCAGGTGGTACGTGCTTGACGCCGGACAGCTACCTGACGCACT
GCTTCCTCCAGCACCTCATGGCTGTGCTGCTCTGGAACGCACGCCCTGCCGGAGCCTGTTGACAAGGACT
TCTACTCCGAGTTGGGAACAAGACCAAGGGAAGATGGAGAACTACGAGCTGATCCACTCTAGTCGCGTCAAGT
TTACCTACCCCCAGTGAGGAGGAGATTGGGGACCTGACGTTACTGTGGCCAAAAGATGGCTGAGCCAGAGAAGG
CCCCAGCCCTCAGCATCCTGCTGTACGTGCAGGCCCTCAGGTGGGATGCCACCCCTGGGTGCTGCAGGGGCC
CCCTGCCGCCCCAAGACACTCCTGCTCACCAGCTCGAGATCTCCTCTGGATGAGGACTGTGTCACATACCCAC
TGCCCAGAGTTGCCAAAGAGCCGCCAGAGAGACAGGTACCGCTGGACATGCCGCCGTCCGGACCTGG
ACCGAGTGCTCATGGCTACCAAGACCTACCCGCAGGCCCTCACCTCGTCTCGATGACGTGCAAGGTACATGACC
TCATGGGCAGTGTACCCCTGGACCACTTGGGGAGGTGCCAGGTGGCCGGCTAGAGCCAGCCAGGGCCGTGAAG
TCCAGTGGCAGGTGTTGTCCCCAGTGCTGAGAGCAGAGAGAAGCTCATCTCGCTGTTGGCTGCCAGTGGGAGG
CCCTGTGCGCTGAGCTGCCGTGAGCTCACGGCTAGCCCAGGCCACAGCCAGCCTGCGTCCAGCCTG
ACGCCTACTGGGCAGGGCAGCAGGCTTGTCTCTAAAAATGTTTATCCTCCCTTGGTACCTTAATTG
ACTGTCCTCGCAGAGAATGTGAAACATGTGTTGTTGTTAATTCTTCATGTTGGAGTGAGAATGCCGG
GCCCTCAGGGCTGTCGGTGTGCTGTCAGCCTCCACAGGTGGTACAGCCGTGCACACCAGTGTGTCGTGCTG
TTGTGGGACCGTTGTTAACACGTGACACTGTGGGCTGACTTCTCTACACGTCTTGGCATCTGCTGTAATTCTGAG
TCCAGTCCCTTGTGCTGTTGCTGTTGCTGTTGCTGTTGGCATCTGCTGTAATTCTGAGGCTGGTAG
CAGAATGCACATTGGAAGCTCCACCCATATTGTTCTCAAAGTGGAGGTCTCCCTGATCCAGACAAGTGGGA
GAGCCCGTGGGGCAGGGGACCTGGAGTGCCAGCACCAAGCGTATTCTGCTGCCTGTATTCTATTCCAAT
AAAGCAGAGTTGACACCGTCTAAAAAAAAAA

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FIGURE 331

MATARTFGPEREAPAKEARVVGSELVDTYTVYIIQVTDGSHEWTVKHYRYSDFHDLHEKLVAERKIDKNLLPPKK
IIGKNSRSLVEKREKDLEVYLQKLLAAFPGVTPRVLAHFLHFHFEINGITAALAEELFEKEQQLLGAGEVFAIG
PLQLYAVTEQLQQGKPTCAGDAKTDLGHILDFTCRKLKVSGTEGPFGTSNIQEQLLPFDLSIFKSLHQVEIS
HCDAKHIRGLVASKPTLATLSVRFSATSMKEVLVPEASEFDEWEPEGTTLEGPTAVIPTWQALTLDLSHNSIS
EIDESVKLIPKIEFLDLHNGLLVVNDNLQHLYNLVHLDLSYNKLSSLEGLHTKLGNIKTLNLAGNLLESLSGLHK
LYSLVNLDLRDNRIEQMEEVRSIGSLPCLEHVSSLNNPLSIIIPDYRTKVLAQFGERASEVCLEDDTVTTEKELDTV
EVLKAIQKAKEVKSKLSNPEKKGGEDSRLSAAPCIRPSSSPPTVAPASASLPQPILSNQGIMFVQEEALASSLSS
TDSLTPHEQPIAQGCSDSLESIPAGQAASDDLDRVPGAVGGASPEHAEPREVQVVPGSGQIIFLPFTCIGYTATNQ
DFIQRLSTLIRQAIERQLPAWIEAANQREEGQGEQEEEDEEEEEEDVAENRYFEMGPPDVEEEEGGGQGEEEE
EEEEDEEEAEEERLALEWALGADEDFLLEHIRILKVLWCFLIHVQGSIRQFAACLVLTDFGIAVFEIPHQESRGSS
QHILSSLRFVFCFPHGDLTEFGFLMPCLVLKVRHSENTLFIISDAANLHEFHADLRSCFAPQHMAMLCSPILY
GSHTSLQEFLRQLLTFYKVAGGCQERSQGCFPVYLVYSDKRMVQTAAGDYSGNIEWASCTLCSAVRRSCCAPSEA
VKSAAIPYWLTLTPQHNVIKADFNPMPNRGTHNCNRNSFKLSRVPLSTVLLDPTRSCTQPRGAFADGHVLELL
VGYRFVTAIFVLPHEKFHFLRVYNQLRASLQDLKTVVIAKTPGTGGSPQGSFADGQPAERRASNDQRPQEVPAEA
LAPAPVEVPAPAPAAAASGPAKTPAPAEASTSALVPEETPVEAPAPPAAEAPAQYPSEHLIQATSEENQIPSHL
PACPSLRHVASLRGSAIIELFHSSIAEVENEELRHLMWSSVVFYQTPGLEVTACVLLSTKAVYFVLHDGLRRYFS
EPLQDFWHQKNTDYNNSPFHISQCFVLKLSLDLQSVNVGLFDQHFRLTGSTPMQVVTCLRDSYLTHCFLQHLMVV
LSSLERTPSPEPVDKDFYSEFGNKTGKMYELIHSSRVKFTYPSEEIGDLTFTVAQKMAEPEKAPALSILLY
VQAFQVGMPPPGCCRGPLRPKTLLLTSSEIFLLEDVCVHYPLPEFAKEPPQRDRYRLDDGRVRDLDRVLMGYQT
YPQALTIVFDDVQGHDLMGSVTLDHGEVPGGPARASQGREVQWQVFVPSAESREKLISLLARQWEALCGRELKV
ELTG

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FIGURE 332

AGGCGCTGCGGCCGTCCGGGCCGTGACTCCTCCCTTCCCCGCCCTCCGGAGAGGCCGGGGCGGG
CGCCTCTCGGCCAGGTACGCCGGCGCTGGATAGGGTCGCCGGGGCTTGGTCGCAGCAGCCGGTCCTC
CCCAGGGTAGGCCGGCGCGGGCCCTGTTGGCTTGGACGCCGGTCCCGCTGGGCCGGGATGCTCCTCTC
TGTGAGCGCGGTCCGTCCTCCCGTCCCCCGGCGCACGGGGTCAACCTGGGGCGCTCCCG
CTGTCCCCGGTGCCGGGTTCGCTCCCGCGGGGCCCTCCCTCGCTTTGTCTCTGAGTGAACTTGATGACC
CCCTTCTTCCAGGAAGGCCCTCTGGACCGCGTGTGACCGATGCCCAGATTGCACGCCACTCTGGAGCTGCTCC
TGTGCGCACAGCGGAGGCCGAGGCCGGCGAGGCCGGCGAGCCGACGCCGGGCTGCCGCCAAGGTTGGGAGATG
ATCAACGTTCCGTGTCGGGCCCTCCCTGCTGGCGCCACGGTGGCCGGGACGCTGACCCCGGCCAGGGC
CGCAGTGTGCGATGAGCGGGCCCGAGGCCGGCAGCCCTACCCCAACACCTGGCATCATGCCCTGTTGAGAGG
AGCCTGTCGCTCTCTCGGTTGGGTGCTAACCCCTGGTCTAACCTGCTGAGATCCAGAGGAATGTCACT
CTCTCCCCGAGGAGGTGATGCCACCATCTTTCTCCGCTGGTGGTCCCTCCCTGTCGGGACAGCAGCT
GCTGTTGGCCTACTGTACCCCTGATCGACAGTCACCTCGGAGAACCCACAAATTAAAGAGAGAATGGGCC
AGTGTATGCGCTGCAAGCAGTTGGTGGCATTAACCAAGCCAGTGCTAAATTGGATTTGCCAATAATGTC
CAGCTGCTTGACTTAGCAGCCCTATCTTGGCCTTGGTGGACATTGATGTTCCAGAAGTGGCTTGGG
CTGGGATCACCATAGCTTCTAGCTACGCTGATCACGCAAGTTCTCGTGTATAATGGTGTCTATCAGTATACG
TCCCCAGATTCCTCTATATTGTTCTGGCTCCCTGTATATTTCTCAGGAGGCGTACGGTGGGAACATA
GGACGACAGTTAGCTATGGGTGTTCTGAAAAGCCCCATAGTGATTGAGCTTCAAAACCACCGATTCTGAGAGC
AAGGAAGATTTGAAAGAAAATCTGACTGTGGATTATGACAAAGATTATTTCTTAAGTAATCTATTAGA
TCGGGCTGACTGTACAATGACTCCTGGAAAAACTCGTCACCTATCTAGAAAAGTCAGAATAGGGAGGTGGAG
AATGATGACTTACCTGAAGTCTCCCTGCTACCCACACTGGCGCTGTCGCCCCGGAGCATTGCCCCAG
CCTACGTGGGTCAGTCAGGTGCCACCTCCAAGTATTGATTCTCATGTGATTAAACAAGTTGCCATAT
TTCAAAGCCTGAGCTAAGACTCAATTACCAACCCGAGTTGTGTCAGTGCCAAAGGAGGGAGGTGATGGT
GCTTAACAAACATGAAGTATGGTGAATAGGAATAATATTATCCAAAGATTAAATAGGGCTGTTTA
AAGAAGGAATCAAACAAGAAAAGCAGCAGTGATTATAGAGAGGTACACTCTAAGTGGGTCGCGGGTGGCCA
CGCTTCACGGTCACGCTCGTCCGCTGCAGTGGCGTGTACATGGTCACACGTGTGTATCACCAGTGGTC
AACTGCTTGTCTTCCCTCCCGGGCAGTGGTGTAGACAATCTACTGAGCAAAGGCAATGAAAAGTCTGGG
CTCCCACACTGCGATATATTGAAATTCCACCTCAGTTATGAAGTTATTCGAAATCCATAGTCATCTAAGAA
TGAATACCTGTCGCCATGTATTCAATCTTAGTGAGCCAAATTGTTGTTACTACAGAATAGAGATGAC
TGTGTTGGCACAGCCATGGAATTGCAATCTGTGATTGCCCTGAAAAAGGAGAGTGCAATGGCACTGCA
TTAAACGTGTGGTGTCTAGTCATGATATTGGTGAGCACAATGTATTCAATGGCATAGACCATACCAGA
CTTAATTGCAAGTATTGGGTCTCAAACCTCAAGTGCAATGTATTATGAAAACCAATCTGAGCCTGTTATCT
TAAATATTATTCTCTAACGTGTGAGATGTCCCGAGAGAAGGGTCTCCATTCAATTGCTGCTGGAGG
AAACTCGGCAATGATTCTCAGTTGTGAAGTTCTTCGGGTTACAACCTCCACTGGAACCCCAACCTCGAA
ATACTCCAGTTGGGGTTGGGCCATTACTTATAAATTACCGCCGGTTTTGGAATCTACATGTCTGGG
GGCGGGCTCAAATTCTCGAAAGTGGTGGATTAAA

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FIGURE 333

MPRLHDHFWS C SCAHSARRGPPRASTAGLPPKGEMINVS VSGPSLI AAHGAPDADPAPRGRSAAMSGPEPGSP
YPNTWHHRLLQRSLVLFSGVVLTIVLNLLQIQRNVTLFPEEVIA TIFSSAWWVPPCCGTAAAVVGLLYPCIDSH
LGEPHKFKREWASVMRCIAGFGGINHASAKLDFANNVQLS LT LAALSLGLWWTFDRSRSGLGLGITIAFLATLIT
QFLVYNGVYQYTSPDFLYIRS WLPCIFS GGVT VGNIGRQLAMGVPEKPHSD

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FIGURE 334A

GGCGAGCCCGGCCCGAACGTCACGTCTCGCGCTCCCTGCACTCTCCGAGCTGCCTAGGCGGGCCACG
 GCTGCCCGCGAACGAAACCGAACCGAGTCGGGCCGTCCTCCGCCGCACATCGCCCGTGACCCGGGG
 TCGCGCTCGCCAGGCCGCGAGCCCAGAGCTGCACGAACCGTGCGCCGGAGGGCGTGGCGTGGCGCCGA
 AGGGTCCCGGGTCTCGACGCCCTCGCGCGCTCCCTCCCTGCAGTTGGATCCCTGGCGGTGCGGCCGG
 CCCGGCCCGTGGCGCACAGAATGGCGATGCTTACACGGCGGGACGTTGCTCTGCTCTGCTG
 GTGACCACCGTCACGCTGCTGGCCGGTCTCCAGAAGGCTGTAGACCAGAGTATCGAGAAGAAAATTGTG
 TTAAGGAATGGTACTGAGGCATTGACTCCTGGAGAAGCCCCCTGCCTGTGTATACTCAGTTCTATTCTC
 AATGTCACCAATCCAGAGGAGATCCTCAGAGGGAGACCCCTGGGTGGAAGAAGTGGGCATACACCTACAGG
 GAACTCAGAAACAAGCAAATATTCAATTGGAGATAATGGAACAAACAATATCTGCTGTTAGCAACAAGGCCTAT
 GTTTTGAACGAGACCAATCTGTTGGAGACCCCTAAATTGACTTAATTAGAACATTAAATTCTGTATTGACT
 GTCATAGAGTGGTCCCAGGTGCACTCCTCAGGGAGATCATCGAGGCCATGTTGAAAGCCTATCAGCAGAAGCTC
 TTTGTGACTCACACAGTTGACGAATTGCTCTGGGCTACAAAGATGAAATCTTGTCCCTATCCATGTTTCAGG
 CCCGATATCTCCCTATTGGCCTATTCTATGAGAAAAATGGACTAATGATGGAGACTATGTTTCTAAGT
 GGAGAACAGTTACCTAACAAAATTGGAATGGAATGGAAAACGTCACTTGACTGGTGGATAACA
 GACAAGTCAATATGATTAATGGAACAGATGGAGATTCTTCACCCACTAATAACAAAGATGAGGTCCCTTAT
 GTCTCCCATCTGACTTTGAGGTCACTGTATATTACTTCAGTGACTATGAGAGTGTACAGGGACTGCCTGCC
 TTGCGGTATAAAGTTCCTGAGAAATATTAGCCAATACGTCAGACAATGCCGCTCTGTATACCTGAGGGAAAC
 TGCCTGGCTCAGGAGTTCTGAATGTCAGCATCTGCAAGAATGGTGCAACCATCATTATGTCCTTCCACACTT
 TACCAAGCAGATGAGAGGTTGTTCTGCCATAGAAGGCATGCACCCAAATCAGGAAGGACATGAGACATTG
 GACATTAATCCTTGACTGAAATACTAAAGCAGCAAGAGTTCAAATCAACATTATGTCAAAAAATT
 GATGACTTGTGAAACGGGAGACATTAGAACCATGGTTTCCAGTGATGTACCTCAATGAGAGTGTACATT
 GATAAAGAGACGGCGAGTCAGTGAAGTCTATGATTAACACTACTTGATCATCACCAACATACCCCTACATC
 ATGGCGCTGGGTGTTCTGGTTTACCTGGCTGCAAGGACAGGGATCCATGGATGAGGGA
 ACAGCGGATGAAAGAGCACCCCTCATTGAAACCTAAACATTGCTTGGTGAAGAAACTGTGTGAGCTGTC
 CTGACCTGGACGATGACGTGGGAAACCCCTCACCTCCTGCAAGGCTGTTGCCTGTTGAAGAAGAGAAAAGAC
 ACGCGCTGGCAAGTGTAGAACATTCTGCCAGAGGTTAAAGAGCAGGCTGACATGGCTGCCATTAAGCTT
 ATAAAATCATGTGGCTCTGAAATTGTCCTTATGTGTCTAGCAAGTATTAATAACCCCTGTATAGTAATT
 TGTTGTTGGCTGGTAGCTCCAGAATTGACCACTATTGTTGGTAAATGTCTGCATCACTGTT
 AATGCTACTGGCTAACCTCATTGACTATGCTTCACTCAGGAACTTGTGCTAAATGCGTATATACCATT
 ATGTTGATTCTCCATTCACTTGCAAAACAGAAGTAAATAAGAGTCTGGGACCCAGGGTAAATGGTAGCTTC
 ATCCAATATATCATTCAAATGCATCTGATTCTAAACATATTACATTGCTGATCTCAGTTCAATTCT
 TCCAGGAAAATCAGTCTCAACTGCAATAAAACTGGTAGAATCAAATGGAAAGGGTTGGGGCAA
 TACCCATGAGTTGATAGTGATAAGCTCTAAGGATTAAACTTGACTTTGTAACGAAAGAGAATGCATAAAT
 AATGTTGGTGAGGATAAAAGTACAGATATTGATGAGAATTAAATTGCTAGTTATGATGCTGGATAGTTA
 ACTGTTTTTTAGTCAAAATGATCATGCTACGAAAAGATGCTCTGAGAGAATGTAATGAGTA
 ACTGATTGTTCT
 TCCTGAGTCGCCCTGCCAATATGTTACTGTTAATTAACTAATATTGAGTATTGTTAAATTGAA
 TATGGGAAATCCATCTATCTACAGCCTAACGTTACACATAAGTTGAGAAAGTCTGATTAGACTAAAGAGATATT
 CTTCTGGGACAGCCGCTTCTGGTAATTGAAAGTTCTTACAAGTTCTCAGTTGAGTTCT
 GTGTTTTGAGCTACTGCACTGAATAGAGAAACGTTGCCCCATACCTTCTGTGACAATCATTTGCTG
 ACAGAATGATGGATGTTAAATATTGACAAAGTACTTTAAAGAAAGGCTGTTAGGACCAAGCAGAGACAC
 CACTTTCAAAGGACTCTGGTTTACGATAACCTAACAGACAGGGAAATTGGGAGCCATCATATGTCACAGTGT
 AGAATTCAAGCATATTAAAGGGCATTCTTGTCAAAGTTGACTCAGCATTGAAATTGAGAAGCCTATA
 CATTTAGCTGACAAAGTGTATAGAAATTCTTAACAACGTTAACCTCAAAAGGATTTTTGTTAAACTG
 GATTTCATGTAAGCAAATGAGAAGAAAAAAATAGATTCTACATTCCATAGCTTCTTATCCCTGATTGAGGTAAT
 AAATTGTTTACTGACAATTTCCTTCTACACTAAACAAATATGATGATATTCCCTCTGTTGAAGAGGCA
 ATTCAATTAAACTCTCAAATTCTATAGAACGATAGAACCTTAGATACTCCAACCTACCAAAATGTA
 AACTAACAAAATATTGGCTTCAATAATGCTAAATATCTACATTGAGAATTGACACATTAAACTAGATA
 ATTGGGCATGCTTAATTATGCACTTATCCATACTAATAAAATTGACAATGCTAGTGCAACTTATTGGTT

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FIGURE 334B

TAGTCCTATTATCAGGATATAATCATCTGTGAGGAGGATTTAAATACTGTAATGATAACAGTTAATGATAT
ACACATTAGACTGAGTTGCACACTGGCAGGGAGACCAAAACATTACTTCCATACTTGTGTATGATTCTTTT
TTTTGAGAGAGTCTCACTCTGTCGCCAGGCTGGAGTACAG

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FIGURE 335

MGRCCFYTAGTLSLLLVTSTLLVARVFQKAVDQSIEKKIVLRNGTEAFDSWEKPPLPVYTQFYFFNVTNPEEI
LRGETPRVEEVGPYTYRELRNKANIQFGDNGTTISAVSNKAYFERDQSVGDPKIDLIRTLNIPVLTVIEWSQVH
FLREIIIEAMLKAYQQKLFVTHTVDELLWGYKDEILSLIHVFRRDISPYFGLFYEKNGTNDGDYVFLTGEDSYLNF
TKIVEWNGKTSLDWWITDKCNMINGTDGDSFHPLITKDEVLYVFPSSDFCRSVYITFSDYESVQGLPAFRYKVPAE
ILANTSNDAGFCIPEGNCIAGSGVLNVSICKNGAPIIMSFPHFYQADERFVSAIEGMHPNQEDHETFVDINPLTGI
ILKAAKRFQINIYVKKLDDFVETGDIRTMVFPMYLNESVHIDKETASRLKSMINTTLIITNIPYIIMALGVFFG
LVFTWLACKGQGSMDGTADERAPLIRT

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FIGURE 336A

GCGCGACCGTCCCCGGGGTGGGCGCGCAGCGCGAGAGGAGGCGAAGGTGGCTGCCTAGCAGCAGCGCG
 CAGCCTCGAACCCAGCCGGAGCGCAGGGCGGCCCTGCAGGTCCCCGCTCCCCCTCCCGTCGTCCGCCCAATGG
 CCGCCGCCGGCAGCTGTGCTCTACCTGCGGGCTCTGCTCCGGCTCGCGCAGCCTCAACTTGG
 ACACTCGGGAGGACAACGTGATCCGAAATATGGAGACCCGGAGCCTTCGCTCTCGCTGGCATGCACT
 GGCAACTGCAGCCCCAGGAACAGCGCTGTTGCTCGTGGGGGCCCGCGAGAAGCGCTCCACTGCAGAGAG
 CCAACAGAACGGAGGGCTGTACAGCTGCACATCACCGCCGGGGCATGCACCGGGATCGAGTTGATAACG
 ATGCTGACCCCACGTCAGAAAGCAAGGAAGATCAGTGGATGGGGTCAACGTCCAGAGCCAAGGTCCAGGGGCA
 AGGTGCTGACATGTGCTCACCGATATGAAAAAGGCAGCATGTTAATACGAAGCAGGAATCCGAGACATCTTG
 GGCCTGTTATGTCCCTGAGTCAGAATCTCAGGATTGAAGACGATATGGATGGGGAGATTGGAGCTTTGTGATG
 GGCGATTGAGAGGCCATGAGAAATTGCTCTGCCAGCAAGGTGAGCAGCTACTTTACTAAAGACTTTCATT
 ACATTGATTGGAGCCCCGGTACTTATAACTGAAAGGGATTGTCGTGAGAGCAAAGAATAACACTTTT
 TTGACATGAACATCTTGAAGATGGGCCTTATGAAGTGGTGGAGAGACTGAGCATGATGAAAGTCTCGTTCCTG
 TCCCTGCTAACAGTTACTTAGGTTTTCTTGGACTCAGGAAAGGTATTGTTCTAAAGATGAGATCACTTTG
 TATCTGGTGTCCCAGAGCAATCACAGTGGAGCCGTGGTTTGCTGAAGAGAGACATGAAGTCTGCACATCTCC
 TCCCTGAGCACATATTGATGGAGAAGGTCTGGCTCTTCATTGGCTATGATGTCGGCGTGGACCTCAACA
 AGGATGGGTGGCAAGATATAAGTTATTGGAGCCACAGTATTTGATAGAGATGGAGAAGTGGAGGTGCAGTGT
 ATGTCACATGAACCAGCAAGGCAGATGGAATAATGTGAAGCCAATTGCTTAATGGAACCAAAGATCTATGT
 TTGGCATTGCACTAAAAATATTGGAGATATTAAATCAAGATGGCTACCCAGATATTGCACTGGAGCTCCGTATG
 ATGACTTGGAAAGGTTTTATCTATCATGGATCGCAAATGGAATAATACCAAACACAGGTTCTCAAGG
 GTATATCACCTTATTGGATATTCAATTGCTGAAACATGGACCTGATGAAATTCTCACCTGATGTTGCTG
 TTGGTCCCTCTCAGATTCAACTATTCAGATCCGGCTGTGATTAATATTCAAGAAACCATCACAGTAA
 CTCCTAACAGAACGACTGGCTCGCCAGAAAACAGCGTGTGGGCGCTAGTGGATATGCCCTCAGGTTAAATCCT
 GTTTGAATATACTGCTAACCCGCTGTTATAATCCTCAATATCAATTGTCGGCACACTGAAGCTGAAAAAG
 AAAGAAGAAAATCTGGCTATCCTCAAGAGTTCAAGGTTCTGAGCCAAATATACTCAAGAAC
 TAACTCTGAAGAGGCAGAAACAGAAAGTGTGCACTGGAGGAAACCTGTGGCTACAGGATAATATCAGAGATAAAC
 TGCCTCCCATTCCATAACTGCTCAGGGAGATCCAAGAGCCAAGCTCGTAGGCGAGTGAATTCACTTCCAG
 AAGTTCTCCAATTGCAATTCAAGATGAAACCAAGACAGCTCATATTGATGTTCACTCTTAAAGAGGGATGTG
 GAGACGACAATGTATGTAACAGAACCTTAAACTAGAATATAAATTGCAACCGAGAAGGAAATCAAGACAAAT
 TTCTTATTACCAATTCAAAAGGTGACAGAAACTAGTTCTAAAGATCAGAAGGATATTGCTTAAAGATAA
 CAGTGACAAACAGCCCTTCAACCCAGGAATCCCACAAAAGATGGCGATGACGCCATGAGGCTAAACTGATTG
 CAACGTTCCAGACACTTAACTTACCTATTCTGCATATAGAGAACTGAGGGCTTCCCTGAGAAACAGTTGAGTTG
 TTGCCAACAGAACGGCTCGAAGCTGACTGTGAGCTGGAAATCTTTAAAGAAATTCAAATGTCACTTTT
 ATTTGGTTTAAGTACAACGTAAGTCACCTTGACACCCATATCTGGATATTCTGAAGTTAGAAACAACAA
 GCAATCAAGATAATTGGCTCAATTACAGCTAAAGCAAAGTGGTTATTGAACTGCTTATCGGTCTCGGGAG
 TTGCTAACCTCCAGGTGATTGGAGGTACAGTGTGGCGAGCAAGCTATGAAATCTGAAGATGAAGTGG
 GAAGTTAATAGAGTATGAACTCAGGGTAATAAACCTAGGTAACCTCTTACAAACCTCGGCACAGCAACCTG
 ACATTCACTGGCCAAAAGAAATTAGCAATGGAAATGGTTGCTTATTGGTGAAGTAGAATCCAAAGGATTGG
 AAAAGGTAACCTGTGAGGCCAAAAGGAGATAAAACTCCCTGAACCTAACGGAGTCTCACAACTCAAGAAAGAAC
 GGGAAATTACTGAAAAACAGATAGATGATAACAGAAAATTCTTATTGCTGAAAGAAATACCAGACTTCA
 ACTGTAAGCGTGAACGTGAACTGTGTAACATCAGATGCCGCTGCGGGGGCTGGACAGCAAGGCGTCTCTTATT
 TGCCTCGAGGTATGGAACAGCACATTCTAGAGGAATATTCAAACGACTGAACACTTGGACATTCTCATGCGAG
 CCTTCATTGATGTGACTGCTGCCGAAAATTCAGGCTGCCAAATGCAGGCACTCAGGTTGAGTGAAGTGT
 TTCCCTCAAAGACTGTAGCTCAGTATTGGAGTACCTGGTGGATCATCCTAGTGGCTATTCTCGTGGATCT
 TGATGCTTATTAGTGTGTTACTATGGAAGTGTGGTTCTTCAAGAGAAATAAGAAAGATCATTATGATG
 CCACATATCACAAGGCTGAGATCCATGCTCAGCCATCTGATAAAGAGAGGCTTACTCTGATGCATAGTATTGAT
 CTACTCTGTAATTGTTGAGGATTCTTAAACGCTCTAGGTACGATGACAGTGTCCCGATACCATGCTGTAAGG
 ATCCGGAAAGAAGAGCGAGAGATCAAAGATGAAAAGTATATTGATAACCTTGAAAAAAACAGTGGATCACAAAG
 TGGAACAGAAATGAAAGCTACTCATAGCGGGGCCCTAAAAAAAAAGCTTACAGTACCCAAACTGCTTTTC

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FIGURE 336B

CAACTCAGAAATTCAATTGGATTAAAAGCCTGCTCAATCCCTGAGGACTGATTTCAGAGTGACTACACACAGT
ACGAACCTACAGTTAACGTGGATATTGTTACGTAGCCTAAGGCTCTGTTGCACAGCAAATTAAA
GTTGGAATGGATTTCTTAACGCCGAATTAACTTTCTGGGTTGCCTTGTGTTGGCGTGGCTGACTTAC
ATCATGTGTTGGGAAGGGCCTGCCAGTTGCACTCAGGTGACATCCTCCAGATACTGTAGCTGAGGAGGCACCT
ACACTCACCTGCACTAACAGAGTGGCCCTCAACCTCAGGCTGCTGCGCAGACGTCCATACGTTAGCTGTCC
CACATCACAAGACTATGCCATTGGGTAGTTGTTCAACGGAAAGTGTGCTTAAACTAAATGTGCAATAGA
AGGTGATGTTGCCATCCTACCGTCTTCTGTTCTAGCTGTGAATACTGCTCACGTCAAATGCATACAA
GTTTCATCTCCCTTCACTAAAAACACAGGTGCAACAGACTTGAATGCTAGTTACTTATTTGTTATGTT
ATTTATTTTCTTCTTACAAACCATTGTTATTGACTAACAGGCCAAAGAGTCTCCAGTTACCCCTTCAG
GTTGGTTAATCAATCAGAATTAGAGCATGGGAGGGTCACTATGACCTAAATTATTTACTGCAAAA
AGAAAATCTTATAAAATGTACCAAGAGAGTTGTTAATAACTTATCTATAAAACTATAACCTCTCCTCATGAC
AGCCTCCACCCCACAACCCAAAAGGTTAAGAAATAGAATTATAACTGTAAAGATGTTATTCAAGGCAATTGGAT
ATTTTTACTTAACTGAGCTGCATAATGTTCTGGATTACATACTGTAAACATTCAAGGAAATTCTGGAGAAGATG
GGTTTATTCACTGAACCTAGTGCAGGTTACTCACTGCTGCAAATACTGTATATTCAAGGACTTGAAGAAAATGGT
GAATGCCATGGAACTAGTGGATCCAAACTGATCCAGTATAAGACTACTGAATCTGCTACCAAAACAGTTAATCA
GTGAGTCGAGTGTCTATTGTTGTTCTCCCTATCTGTATTCCAAAAATTACTTGGGCTAATT
AACAAAGAACTTAAATTGTGTTAATTGTAAGGCAAGGGGGTGAATTATTACTCTACATTCAACAGAG
ACTGAATAGATATGAAAGCTGATTTTTAATTACCATGCTTCACAATGTTAAGTTATGGGAGCAACAGCA
AACAGGTGCTAATTGTTGGATATAGTATAAGCAGTGTGTTGAAAGAATAGAACACAGTTGTAGTG
CCACTGTTGTTGGGGGGCTTTCTTCCGAAATCTTAAACCTTAAGATACTAAGGACGTTGTT
TTGGTTGACTTGAATTCTTAGTCACAAATATTTGTTACAAAATTCGTAAAACAGGTATAACAGT
GTTAAAGTCTCAGTTCTGCTGGGAACCTGTCCTAATGTGTAGATTGCTAGATTGCTAAGGAGCTGA
TACCTGACAGTTTAGACCTGTGTTACTAAAAAAAGATGAATGTCGGAAAAGGGTGTGGGAGGGTGGTCAA
CAAAGAAACAAAGATGTTAGGTGTTAGACTTATGGGTGTTAAAATGTCATCTCAAGTCAGTCAGTCAACTGGCTG
TTGCATTGATACTTTGACTAAGCATGTTAAAATTATTCATGATTAGAAATTACCTGTGATATGTGAAGCAA
CTCTAAAATTATAACACCTGAATTATCTACAAAAA

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FIGURE 337

MAAAGQLCLLYLSAGLLSRLGAAFNLDTREDNVIRKYGDPGSLFGFSIAMHWQLOPEDKRLLLVGAPRGEALPLQRANRTGGLYSCDITARGPCTRIEFNDADPTSESKEQWMGVTVQSQQPGGGKVVTCAHRYEKRQHVNTKQESRDIFGRCYVLSQNLRIEDDMGGDWSFCDGRLRGHEKGSCQQGVAATFTKDFHYIVFGAPGTYNWKGIVRVEQKNNTFFDMNIEFDPYEVGGETEHDESLVPVPANSYLGFSLDGKGIISKDEITFVSGAPRANHSGAVVLLKRDMSAHLLPEHIFDGEGLASSFGYDVAVVDLNKGWQDIVIGAPQYFDRDGEVGGAVVYVMNQQGRWNNVKPIRLNGTKDSMFGIAVKNIGDINQDGYPDIAVGAPYDDLGVFIYHGSANGINTKPTQVLKGISPYFGYSIAGNMDDLDRNSYPDVAVGSLSDSVTIFRSRPVINIQKTITVTPNRIDLRQKTACGAPSGICLQVKSCFEYTANPAGYNPSISIVGTLAEKERRKSGLSSRVQFRNQGSEPKYTQELTLKRQKQVCMEETLWLQDNIRDKLRPPIPITASVEIQEPSSRRVNSLPEVLPILNSDEPKTAHIDVHFLKEGCDDNVNCNSNLKEYKFCREGNQDKFSYLPPIQKGVPELVLKDQKDIALEITVTNSPSNPRNPTKDGDDAHEAKLIATFPDTLTYSAYRELRAFPEKQLSCVANQNGSQADCELGNPFKRNSNVTFYLVLSSTTEVTFDTPLYLDINLKLETTSNQDNLAPIAKAKVVIELLLSVSGVAKPSQVYFGGTVVGEQAMKSEDEVGSLIEYEFRVINLGKPLTNLGTATLNIQWPKEISNGKWLLYLVKVESKGLEKVTCCEPQKEINSNLTEHNSRKREITEKQIDDNRKFSLFAERKYQTLNCNVNCVNIRCPIRGLDSKASLILRSRLWNSTFEEYSKLNLDILMRAFIDVTAAAENIRLPNAGTQVRVTVFPSKTVQAQYSGVPWWIILVAILAGILMLALLVILWKCGFFKRNKKDHYDATYHKAETIHAQPSDKERLTSDA

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FIGURE 338

GGGGGAAGTTGCTGGCTGACTGGGCTTGCAGGGAAACCGCCTCGGAGCTGCAGCGAAGGCCAAGGAATCACTGAA
GATCGGGCGAGGGAGGACAGGGGTTCATCATGGGTGGCTTTCTCAAGTATATTCCAGTCTGTTGGAACTC
GGGAAATGAGAATTAAATTTGGGATTAGATGGAGCAGGAAAACACAATTGTACAGATTACAAGTGGGAG
AAGTTGTTACTACTATACTACCTACCATTGGATTAATGTAGAGACGGTGACGTACAAAACCTAAATTCCAAGTCT
GGGATTAGGAGGACAGACAAGTATCAGGCCATACTGGAGATGTTACTATTCAAACACAGATGCAGTCATTATG
TAGTAGACAGTTGTGACCGAGACCGAATTGGCATTCCAAATCAGAGTTAGTTGCCATGTTGGAGGAAGAGC
TGAGAAAAGCCATTAGTGGTGGTCAAAATAACAGGACATGGAACAGGCCATGACTCCCTCAGAGATGGCAA
ATTCACTGGGTTACCTGCCTTGAAGGACCGAAAATGGCAGATATTCAAACAGTCAGCAACCAAAGGCACCGGCC
TTGATGAGGCAATGGAATGGTTAGTTGAAACATTAAGGACAGTATTCAGTCCATTCTCTCCCTGAAA
TGAAGACTACATCACCTCTCCCTTGGAAACAGTCAAGTGTACTTCACACTACTAGATGTTAAACTATATGA
TTATTGGCATATACTGACTGCAATATTGTAGTAAATAGGAAATAAGTATTAGTTGGAGGGATAATT
GATCGAACACCTGAATGTTCTATGTAATGAAATATTCTTCTGCTTCTGTGTTAGGTATATATTCTA
TTGTATGGAATTCTATTCAAATACAGTTGATTAAGAGTATACTCCTATTGGATGAAAAAAACCT

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FIGURE 339

MGGFFSSIFSSLFGTREMRILILGLDGAGKTTILYRLQVGEVVTTIPTIGFNVETVTYKNLKFOVWDLGGOTSIR
PYWRCYYNSNTDAVIYVVDSCDRDRIGISKSELVAMLEEEELRKAILVVFANKQDMEQAMTSSEMANSLGLPALKD
RKWQIFKTSATKGTGLDEAMEWLVETLKSQ

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FIGURE 340A

GAATTCGTTGGAGGACTGGGAAACAGCTGTAACATTCGCCACCCCTCAGAAGCTGCTGGTCTGTGTCAC
ACCACCTTAGCCTTGTGAGGAAAGATTCTCGCTGAAGTCTGTTAATTCTACTTTGAGTACTTATGAATAA
CCACGTGCTTCAAAACCATCTACCATGAAGCTAAAACATACCATCACCCATTCTTATTTGAGTCAAGACAAGAAAAATCAA
TCTAATATCACTTATACTATTTAACATACATTCCGTTTATTTCTCCGAGTCAAGACAAGAAAAATCAA
CCGAATTAAAGCAAAGCCTGAAATTCAAAACCTGATTCTGCATACAGATCTGTTAATAGTTGGATGGTTGGC
TTCAGTATTATACCCCTGGATGTGATACTTAGATAAGTTTACATATGCAAAAAACAAATTAAAGAACAAAAG
ACTCTGGGAACACGTGAAGTTAAATGAGGAAGATGAAGTACAACCAATGGAAAATTAAAGGTTAT
TCTGGACAGTATAATTGGCTTCTATGAAGATGTCTTGTGAGCCTTAATTGGAAATGGATTACAGAT
GTTGGTCAGAAACCAAGACCAACATGCCATCTCTGTGAGACCAGGGCCAGTGGATGATAGCTGCACAGGC
GTGTTTATGTATAATTTCAGCTGTTACATTATGCCACTCTAGGAGGTCCAGCCATTGTCATGCATTAAA
TGAAACAGAGGTGACCAACATCATTACTAGTAAAGAACTCTAACAAACAAAGTTGAAGGATATAGTTCTTGGT
CCCACGCCGCGCACATCATCACTGTTGATGGAAAGCCACCGACCTGGTCCACTCCCCAACGGCATTGTC
GCATACCATGGCTGCAGTGGAGGCCCTGGGAGCCAAGGCCAGCATGGAAAACCAACCTCATAGCAAACCAATTGCC
CTCAGATATTGAGTAAATCATGACACAAGTGGATCCACAGGACTTCCAAGGGAGTCATGATCTCACATAGTAA
CATTATTGCTGGTATAACTGGATGGCAGAAAGGATTCCAGAACTAGGAGAGGAAGATGTCATGATGGATATT
GCCTCTGGCCATGTTCTAGAATTAAGTGCTGAGCTGTCCTCTACGGATGCCGATTGGTACTCTTC
ACCACAGACTTAGCAGATCAGTCTCAAAATTAAAAAGGAAGCAAAGGGGATACATCCATGTTGAAACCAAC
ACTGATGGCAGCAGTCCGAAATCATGGATGGATCTACAAAATGTCATGAATAAAAGTCAGTGAAATGAGTAG
TTTCAACGTAATCTGTTATTCTGGCCTATAATTACAAAATGGAACAGATTCTAAAAGGACGTAATACTCCACT
GTGCGACAGCTTGTGCTTCCGAAAGTTCGAAGCTGCTAGGGGAAATATTGTCCTCTGTTGTTGCG
TCCACTTCTGCAACCACGCGATTGACATGAAACATCTGTTCTGCTGTCCTGTTGAGGATACGGGCTCAC
TGAATCTGCTGGGCTGGAACAATTCCGAAGTGTGGACTACAATACTGGCAGAGTGGGAGCACCATTGTTG
CTGTGAAATCAAATTAAAAACTGGAGGAAGGTGGACTACATTAAACTGATAAGCCACACCCAGGGGTAAT
TCTTATTGGGGCCAAGTGTGACAATGGGTACTACAAAATGAAGCAAAACAAAGCTGATTCTCTGAAGA
TGAAAATGGACAAAGGTGGCTGTACTGGGATATTGGAGAGTTGAACCCGATGGATGCTTAAAGATTATTGA
TCGTAAAAGGACCTGTAACACTACAGGCAGGGAAATGTTCTTGGGAAAGTAGAGGCAGCTTGAAGAA
TCTTCCACTAGATAACATTGTGCAATGCAAACAGTTATCATTCTATGTCATTGGATTGTTGTC
TCAAAAGGAACACTGAACTAGCTGAAAGAAAGGACTTAAAGGACTTGGGAGGAGCTGTAACAGTTGTA
AATGGAAAATGAGGTACTTAAAGTGCTTCCGAAGCTGCTATTGCAAGTCTGAAAAGTTGAAATTCCAGT
AAAAATTGTTGAGTCTGAACCGTGGACCCCTGAAACTGGTCTGGTACAGATGCCCTCAAGCTGAAACGCAA
AGAGCTTAAACACATTACCAAGCGGACATTGAGCGAATGTATGGAAGAAATAATTTATTCTCTGGCATTG
TTGCTACAGTGAGCTCACATCAAATAGGAAAATACTGAAATGTCATGTCAGCTGCAAGGCAAACCTCATT
CTCATATTAAACTATTACTCTCATGACGTCACCATTAACTGACAGGATTAGTAAACATTAAGACAGCAA
CTTGTGCTGTCCTCTTCAATTCCCGCCACCAACTTACTTACCCACCTATGACTGACTGTCAGTATGA
GAATTCTGAATCATATTGGGAAGCAGTGATTTAAACCTCAAGTTTAAACATGATTATGTTCT
ATAATGTCAGTTGTAACCTTAAAGTTGGATGTATAGAGGGATAATAGGAAATATAAGAATTGGTATT
TGGGGCTTTTACTTACTGTATTAAACAGGGTATTGATATGAAATTATGAAATTCTCAAATGCTTAT
GAATCAAATCATTGTAACAAAGATTGTTGTCATGAAACAAAATAGCAAGAGAGGGTTATAGTTAAATAGTAA
TACCCATACATTGTTAAAGAAGTTGAGATCTGTAATATGCCGTGTCAGTGTCTTATATATTATT
TTTATTAGAAAAATGAAGTTGGTGGTGTGATGCAAGACAAAATAGCAAGAGAGGGTTATAGTTAAATAGTAA
GGGAGATAACACAGCATGTTGAGCACCAGTGTGATAATTGGTCTCTAGTAGCTACTGTCAAAATGTTCAATGAAG
TCTTGTGTCATCTGTTGAAACTAGGAAAATACCCAACTTAAATGGAAGAATTCTGAAAGAGAGGATAGAATT
AAAGAACAAAGAGTATATAAGTTATTCTTGAATATTGTCAGTATATGTCATTGAGTTATCTATATTGTA
AACAAATTAGTCATGGAAAATTATTCTATTCCAAGTCTCCATTAGTCTAGATAATCATTATTCAATTAAAA
TTAGTGTGTTCTAGTTGCACTGATGCGTATGGATGTGTGAGTCAGTGGTAGCTTATTAAAAAGCACC
TTATCCTTCTCCATAACCTTGTACACTAAAAATGAAAGAATTAGAATGTATTGATGATAGCATTCTC
TAAGACACATGAGAATTAACTTATAACCGCGTGTGAGTTAAGATTAAATTGATGTCATTGTTGAA
GTTATTGTAATTGAGAACCTGCTTGTGATACAGTAAAGTCTCTCATTACTGCTTGCCTGTTGTT

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FIGURE 340B

ATATCTGGATTATCAAAAGCAATAGTCACCAATTAAAGATGTGCTCAAATCAGGACTTAAATCATAGGCACCACA
TTTTCATGTCAGACTAGTTACTTGTGATTCTCAGTTACTGTAGGCATAAAAGGCAAAATCA

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FIGURE 341

MNNHVSSKPSTMKLKHTINPILLYFIHFLISLYTILTYIPFYFFSESRQEKSNRRIAKPVNSKPD SAYRSVNSLD
GLASVLYPGCDTLKVFTYAKNKFKNKRLLGTREVLNEEDEVQPNGKIFKKVILGQYNWLSYEDVFVRAFNFGNG
LQMLGQKPKTNIAIFCETRAEWMAAQACFMNFQLVTLYATLGGPAIVHALNETEVTNIIITSKELLQTKLKDIV
SLVPRLRHIITVDGKPPTWSDFPKGIIVHTMAAVEALGAKASMENQPHSKPLPSDIAVIMYTSGSTGLPKGVMS
HSNIIAGITGMAERIPELGEEDVYIGYLPLAHVLELSAELVCLSHGCRIGYSSPQTLADQSSKIKKGSKGDTSM
KPTLMAAVPEIMDRIYKNVMNKVSEMSSFQRNLFILAYNYKMEQISKGRNTPLCDFVFRKVRSSLGGNIRLLLC
GGAPLSATTQRFMNICFCCPVGQGYGLTESAGAGTISEVWDYNTGRVGAPLVCCIEIKLKNWEEGGYFNTDKPHPR
GEILIGGQSVMGYYKNEAKTKADFSEDENGQRWLCTGDIGEFEPDGCLKIIDRKKDLVKLQAGEYVSLGKVEAA
LKNLPLVDNICAYANSYHSYVIGFVVNPQKELTELARKKGLKGTWEELCNSCEMENEVLKVLSEAAISASLEKFE
IPVKIRLSPEPWTPETGLVTDAFKLKRKELKTHYQADIERMYGRK

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FIGURE 342

AGGGGCCTAGCGTGCCGATGCCGAGATCCAGCGCCAGAGAGACACCAGAGAACCCACCATGGCCCCTTG
AGCCCCCTGGCTTCTGGCATCCTGTTGCTGTGGCTGATAGCCCCAGCAGGGCTGCACCTGTGTCCCACCCC
ACCCACAGACGGCCTCTGCAATTCCGACCTCGTCATCAGGGCCAAGTCGTGGGACACCAGAAGTCAACCAGA
CCACCTTATACCAGCGTTATGAGATCAAGATGACCAAGATGTATAAAGGGTCCAAGCCTAGGGGATGCGCTG
ACATCCGGTCGCTACACCCCCGCCATGGAGAGTGTCTGCGGATACTTCCACAGGTCCCACAACCGCAGCGAGG
AGTTTCTCATTGCTGGAAAACTGCAGGATGGACTCTTGCACATCACTACCTGCAGTTCTGGCTCCCTGGAACA
GCCTGAGCTTAGCTCAGGCCGGGCTCACCAAGACCTACACTGTTGGCTGTGAGGAATGCACAGTGTTCCT
GTTTATCCATCCCTGCAAACACTGCAGAGTGGCACTCATTGCTTGACGGACCAGCTCCTCCAAGGCTCTGAAA
AGGGCTCCAGTCCGTACCTGCCCTGCCCTGGAGCCAGGGCTGTGCACCTGGCAGTCCCTGCCGTCCC
AGATAGCCTGAATCCTGCCGGAGTGGAACTGAAGCCTGCACAGTGTCCACCCCTGTTCCACTCCCATTTCTT
CCGGACAATGAAATAAGAGTTACCACCCAGC

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FIGURE 343

MAPFEPLASGILLLWLAPSRACTCVPPHPQTAFCNSDLVIRAKFVGTPENVQTTLYQRYEIKMTKMYKGFQAL
GDAADIRFVYTPAMESVCGYFHRSHNRSEEFIAAGKLQDGILHITTCSFVAPWNSLSAQRRGFTKTYTVGCEEC
TVFPCLSIPCKLQSGTHCLWTDQLLQGSEKGFQSRHLACLPREPGLCTWQSLRSQIA

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FIGURE 344

CAACCAGGGAGATTCCTCCATTTCCTTGTCTACAGTGCGGCTACAAATCTGGGATTTTTATTACTTCTT
TTTTTCGAACACTACCTGGGCTCCTTTTGTGCTGACTTTCCACCCCTTTCCCTCCCTGTGCTGCT
GCTTTTGATCTCTCGACTAAAATTTTATCCGGAGGTATTAATCGTTCTGTTCTGCCTCTCCACAC
CCCCACCCCCCTCCCTCCGGTGTGTGCCGCTGCCGCTGTTGCCGCCGCTGCTGCTGCTGCCCGTC
GTTACACCAACCCGAGGCTCTTGTGTTCCCTCTGGATCTGTTGAGTTCTTGTGAAGAAGCCAGCATGGT
GCCAGTTCTCAAGACCGCAGCGAAGGGAGAAGCCGCCGCGAGAGGCCCTGGGGAGGCCTGTTCTCGTGC
CCTTCAAAGCGAACGGACAGGGAGAATGGCACGTGAAGGTAACGGCGACGCTCGCCCCGCCGCCGAGTC
GGCGCCAAGGAGGAGCTGCAGGCCAACGGCAGGCCCGGGCGACAAGGAGGAGGCCGCCGCCGGAGC
GGGGCGCGTCGCCCTCCTCGGCCAGAGAAAGGTGAGCCGCCGCGCTGCCGAGGCCACGCCGCCGGAGC
GTAGAGAAGGAGGAGGCCCGCGGAAGGCAGGGCTGCCGAGGCCGCGCTGCCGAGGCCACGCCGCCGGAGC
TCGGCCGCCTCTGACTTCTGCCAACGCCAGGACGGGCCACGCCCTGCCAGCAACGAGACCCGAAA
AAAAAAAAGAAGCGCTTCCTCAAGAAGTCTTCAAGCTGAGCGGCTCTCCTCAAGAAGAACAGAAGGAG
GCTGGAGAAGGCGGTGAGGCTGAGGCGCCGCTGCCGAAGGCGGCAAGGACGAGGCCGCCGGGCGCAGCTGCG
GCCGCCCGAGGCGGGCGCCCTCCGGGGAGCAGGCAGGCCGCCGGCGAGGAGGCCAGCGGGCGAGGAG
GGGGCGCGGGTGGCAGCCCGAGGAGGCCAACGCCAGGAGGCCCTGTCGCCAGAGAACGCCGCCAGC
GACGAGACCAAGGCCGCCAGGAGGCCAGCAAGGTGGAGGAGAAAAGGCCGAGGAGGCCGGGCCAGCGGCC
GCCTGCCAGGCCCTCCGCCGCCGGGGCGCCGCCAGGCCAGGCCGCCGGAGGAGGCCAGCGGCC
GCCGCCAGCCTCGTCAGCCTGCCAGGCCCTCACAGGAGGCCAGGCCAGTGCAGTCCAGAACGCC
GCCGGAGGCCAGTAAAAGAGCAAGCTTGTGAGATAATCGAAGAACTTTCTCCCCGTTGTTGTTGGA
GTGGTGCCAGGTACTGTTGGAGAACCTGTCTACAACCAGGGATTGATTTAAAGATGTCTTTTATTTAC
TTTTTTAAGCACCAAATTGTTGTTCTCCCTCCCACAGATCCATCTCAAATCATTCTGTT
AACCAACCATTCCAACAGGTGAGGAGAGCTTAAACACCTCTCCTGCCTGTTCTTTATTTTATTT
TTTCGCATCAGTATTATGTTGCTACACTTGCATCTTATTCAAAGTGTAAACTTCTTGTCAATCTATG
GACATGCCATATATGAAGGAGATGGTGGGTCAAAAGGGATATCAAATGAAGTGTAGGGGTACAATGGGA
AATTGAAGTGGTGCATAACATTGCCAAAATAGTGTGCCACTAGAAATGGTGTAAAGGCTGTTTTTTTT
TTAAAGAAAAGTTATTACCATGTATTTGTGAGGCAGGTTACAACACTACAAGTCTTGAGTTAAGAAGGAAAGA
GGAAAAAAAGAAAAACACCAATACCCAGATTAAAAAAACGATCATAGTCTTAGGAGTTCAATTAAACC
ATAGGAACCTTCACTTATCTCATGTTAGCTGTACAGTCAGTGATTAAGTGAACACTACAAGTGTATAGGTTT
ATTGTTATTGCTGGTTATGACCTTAATAAGTGAATTATGTTACAGCAGGGTGTAAACTGTGACTA
TTGTATAAAACAAATCTTGATATCCAGAACATGAAGTGTGCAACTTCCACCCCTGCCATTGGTAAAC
TGCAGTCATCTGGACCTTAAAACACAAATTAAACTCAACCAAGCTGTGATAAGTGGAAATGGTACTGTT
ATACTGTGGTATGTTTGATTACAGCAGATAATGCTTCTTCCAGTCGTCTTGAGAATAAGGAAAAAAA
TCTTCAGATGCAATGGTTGTAGCATCTGCTATCATGTTGAAATACTGGAGAACGTTGACCAATT
GACTTAGAGATGGAATGTAACTTGCTACAAAATTGCTATTAAACTCCTGCTTAAGGTGTTCTAATTCTGT
GAGCACACTAAAGCGAAAATAATGTGAATAAAATGT

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FIGURE 345

MGAQFSKTAAKGEAAAERPGEAAVASSPSKANGQENGHVKNVDASPAAAESGAKEELQANGSAPAADKEEPAAA
GSGAASPSSAEKGEPAAAAAPEAGASPVEKEAPAEAGEAAEPGSATAESEAASAASSTSSPKAEDGATPSNET
PKKKKKRFSFKSFKLSGFSKKNKEAGEGGEEAAPAAEGGKDEAAGGAAAAAEEAGAASGEQAAAPGEEAAAG
EEGAAGGDPEAKPQEAAVAPEKPPASDETKAEEPSKVEEKKAEEAGASAAACEAPSAAAGPGAPPEQEAAPAE
PAAAAASSACAAPSQEAQPECSPPEAPPAAE

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FIGURE 346

GTTTGAATGAGACTCGCGACCGAAGCCGCCACCACCGCGCTCCGCCTCGGCCCTGGCGCCGCAGCTGCTCC
TGGTCCCCGTCCCTTGCCGCCCTCGTCAGGCCAGCTCTCCTCGGCCGCCCTCCGCCGCCAGCTGC
CGCTCTACTCCGTACTGTAAAATGGGAAAGGAGAAATTGAAGGTGAGAATTGAATAACAGATGAACCTCAA
TGGTATTCAAGGCTCAGCTGTTGCGTTGACTGGAGTCCAGCCTGCCAGACAGAAAGTTATGGTAAAGGAGGAA
CGCTAAAGGATGATGATGGGAAACATCAAATAAAATGGAATGACTCTACTAATGATGGGTCAGCAGATG
CTCTCCAGAAGAACCCCTAGCCAAAACGTCTCGTAGAACAGACATGACAGAAGAACAGTTAGCATCTGCTATGG
AGTTACCATGTGGATTGACAAACCTTGGTAACACTTGTACATGAATGCCACAGTCAGTGATTGTTCTGTGC
CTGAACCAAAGATGCCCTAAAGGTATGCAGGTGCTTGAGAGCTCAGGGAAATGGCTCAGGCCAGTATA
TTACTGCAGCCCTAGAGATTGTTGATTCCATGGATAAAACTCTCCAGTATTCCACCTATTATTCTACTG
AGTTTTGCACATGGCTTCCCACAGTTGCCAGAAAGGTGAACAAGGACAGTATCTCAACAGGATGCTAATG
AATGTTGGATACAAATGATGCGAGTATTGCAACAGAAATTGGAAGCAATAGAGGATGATTGTTAAAGAGACAG
ACTCCTCATCTGCATGGCAGCGACACCTCTAAAAGAAAAGTTAACGATCAGTCTCGGTGTTGAGTTG
AAACTACCAGAAATGTACAGAACATCTGAAGAAGAAGTCACCAAAGGAAAGGAAATCAACTCAGCTTAGCT
GTTTATCAATCAGGAAGTCAGTATCTTTACAGGACTTAAATTGCGACTTCAGGAAGAAATCACCAAACAGT
CTCCAACGTTGCAAAGAAATGCCCTGTATATCAAATCTCCAAGATCAGCCGCTGCCCTGCTTACTTGACCAATT
AGATGGTCGATTTTATAAAGAGAAGGAATCTGTGAATGCCAAAGTTCAAGGATGTTAAATTCCCTCTTA
TGTGAGATATGTATGAACTGTGTACACCGAACITCAAGAGAAAATGGTGTCTTCGATCCAATTCAAGGATC
TAGAAGATAAAAGTGAATCAGCAGCCAAATACAAGTGACAAAAAGAGTAGTCCCCAGAAAGAAGTTAAGTATG
AACCCTTTCTTGCTGATGATATTGGCTCCAATAATTGTTGACTATGACTTACAAGCAGTACTAACACACC
AGGGAAAGGTCTAGTTCTCAGGTCTTGTGATCATGGGTGAAAAGGAAACAGATGAATGGATTAAGTTGATG
ATGACAAAGTCAGCATCGTAACACCAGAACAGATCTACGGCTTCTGGTGGAGACTGGCATATCGCTTACG
TTCTACTCTATGGCCTCGCAGAGTTGAAATAATGGAAGAGGAAGTGAACAGTAATCTCATTAGTATTAT
GCTTAGATGTGAAAATAATGTTATTGTTGATCATTCTATAATCCAGAGCTTAGAGGAAGACACATAGGTGG
GTTTATGTTCACCTCATTTGAAACAAAAGAGGACAGAACGAGACCCTGTGCACCAACTAAAAATTACAG
AGAAGAGAAAATTATCTTGATTGTGCTGCCCTATATAAAGGTGGCAGAAAGACATTTTAAAAGCTTATTAT
TTCTTGCTTCTGATTGTTGACTCAGTGTGAAATGCCCTTCAACCATTCTCTGTGGTCTTGTGCTG
CCTTTTCAACCAAGATTAGCAGTCAGTGTACTGCACACCTATTACCTATTGCTGTTGCATGGT
TCAAACCAACATTCTGTAGCCACCCATCTTGCCTTATCTAACAAACATTTCAGGAAGGTGGAAAAGGAAG
TGTTGCTCTCATTGTTGACTCAGTGTGAAATGCCCTTCAACCATTCTCTGTGGTCTTGTGCTG
CTATTGCAAGGCTTCTGACTTTAAATAATTGTGATCAATAATAGTACCTTGATTACATTATTATTGT
GTCTCTCTGTACTGTGGATTGTACATTAACTTGGAAATGGCTTGTAAATAATCAGTCTTAAGAAAATGT
TGACAAGCTCTGGTTGCTTATTGTTAGAAAATGAGGACATTAAATAATAAAAAAAAGGGATTAATAGCTT
TGACCTCAAGTCTTGTCTGAGTGTGGAGCTGGCTGAAGACATGTTAATACTGTACAATTCTGAAGA
TGGTTATTAACACTGTGCTGTTAACGATCCATTAAAATAATTGTTATCTTCTTGCCTGCTGTATTAAAA
AGAAATAACAAAGTTGAAAGTAATGGATTCTTGGATGCTGAATGCAGTGATTTACAGTCAAGTCTTCC
TTGGCTCAGTTGTGTTGATTCTTCTTAATCCCCAAATCTGGCTGGGCACGGTGGCTACGCCCTGTAAT
CCCAGCAGCTTGGGAGGCTGAGGCAGGTGGTCACTGGAGGGTGAGTCAGGACACCAGCCTGCCACATGGTAAA
CCCTGCTCTACTAAAGATAAAAATTAGCTGGATGTTGGTGGTGCACACCTGTGATCCCAGCTACTGGGAGGC
TGAGGTGGGAGAATTGCTGAACCTGAAAGGCAGAAGTTGCAGTGAGCTGAGATCACACCAGTCACTCCAGCCT
GGGTGACAGAGAGACTCTGCTCAAAAAAAAAAAAAAA

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FIGURE 347

MPLYSVTVKWGKEKFEGVELNTDEPPMVFKAQLFALTGVQPARQVMVKGGTLKDDWGNIKIKNGMTLLMMGSA
DALPEEPSAKTVFVEDMTEEQLASAMELPCGLTNLGNTCYMNATVQCIRSVPELKDALKRYAGALRASGEMASAQ
YITAALRDLFDSDMDKTSSSIPIIILLOFLHMAFPQFAEKGEQGQYLQQDANEWCWIQMMRVLQQKLEAIEDDSVKE
TDSSSASAATPSKKSLIDQFFGVEFETTMKCTESEEEEVTKGKENQLQLSCFINQEVKYLFTGLKLRLQEEITK
QSPTLQRNALYIKSSKISRLPAYLTIQMVRFFYKEKESVNAKVLKDVKFPLMDMYELCTPELQEKMVSFRSKFK
DLEDKKVNQQPNTSDKSSPQKEVKYEPFSFADDIGSNNCYYDLQAVLTHQGRSSSSGHYVSWVKRKQDEWIKF
DDDKVSVTPEDILRLSGGGDWHIAYVLLYGPRRVEIMEEESEQ

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GAGGAGCTCTGC CGGGCGGGCGATCCGAGCCGGACGGGCTGCAGGGGGTCTGCAGAGGACACGAG
GCGGCGGGCTGGAGACATGGACCGCGCGAGCAAGGTCTGAGAACAGACCCAGTCCCTGAGGAAGGAGAAGA
TGTTGCTGCCACGATCAGTGCCACAGAGACCCCTCGGAAGAGGAGCAGGAAGAGCTAAGAAGAGAACTTGCAA
GGTAGAAGAAGAAATCCAGACTCTGTCAGTGTAGCAGCAAAAGAGAAGCATCTAGCAGAGATCAAGCGGAA
ACTTGGAAATCAATTCTCACAGGAACATAAACAGAACATTGCCAAGGGTGGCAAGACGTGACAGCAACATCTGC
TTACAAGAAGACATCTGAAACCTTATCCCAGGCTGGACAGAAGGCCTCAGCTGTTTCTGTTGGCTCAGT
CATCACCAAAAAGCTGGAAGATGTAAAAAACTCCCCACTTTAAATCATTGAAAGAAAAGGTCGAAAACCTTAA
GTCTAAAGTAGGGGAACCAAGCCTGCTGGGGTATTTGGAGAAGTCTGAAATTGGCTGCAAATGCTAGTGC
CACCACCA CGGAGCCTTCCAGAAAAGACACAGGAGAGCCTGTGAGATT CCTACCTTGTCTGCTACCCACTG
CCAGATGCTGCAAGCAGGTCCAAGCACATCTGTCACATGCCATGAATTCTACCAAGATGTGCTTTA
TTAGCTTACATATTCCCTGACCAAATAGTTGTGGGTTAACAAAATGAAAATATCTCACCTCTATTCTG
GGAAACACCCTTAGTGTACATTATGTTCCATTAGGAAACACCATTATAAAAACACTATAGTAAATGGG
GACATTCACTATAATGATCTAAGAAGCTACAGATTGTCTAGTTGTTCTGTTACAAAATGCTCCAGATC
TGGATGCCAGTTGACCTTGCTTCTATAATATTCCCTTTTCCCCTCTTGAATCTGTATATTGATT
CTTAACAAAATTGTTCTTAAATATTCTGAATCCTGGTAAATTAAAAGTTGGGTGATTTCTTACCTCCAA
GGAAAGAACTACTAGCTACAAAAAATTTGGAATAAGCATTGTTGGTATAAGGTACATATTGGTTGAAG
ACACCAAGACTGAAGTAAACAGCTGTGCATCCAATTATTAGTTGTAAGTAACAATATGTAATCAAACCTCT
AGGTGACTTGAGAGTGGAACCTCCTATATCATTATTAGCACCGTTGTGACAGTAACCATTCACTGATTGTT
TATTATACCACTTATATCAACTTATTTCACCAGGTTAAAATTTAATTCTACAAAATAACATTCTGAATCAA
GCACACTGTATGTCAGTAGGTTGAACATATGAACACTGTCTACATTGTTCAAGCTGAAAGCTGAAAGTTAGAT
CTAGAACGCTGGTAAAATGACAATATCAATCACATTAGGGAACCATTTGTTCTTCACTTAATCCATTAGCAC
TATTAAAATAAGCACACCAAGTTATGACTAATATAACTTGAIAAATTTTACTGAGGGGTTGGTGATAAAC
TCTTGAGGATGTAATGCATTAATAAAAATCAACTCATTTCTACTTGTGTTCAATGTGTTGGAAACTGTAAA
ATGATACTGTAGAACCTGTCCTACTTGAAACTGAATGTCAAGGCTGAGTGAATCAAAGTGTCTAGACATAT
TTGCATAGAGGCCAACGGTATTCTATTCTAATAACTGCTTACTCAACACTACCACCTTCCCTATACTGTATATG
ATTATGGCCTACAATGTTGATTGTTATTATAATTGTTGATTGTTTATTATTGTTATGCCAAATGTTAAC
TGCCAAAGCTGGAGTGACCTAAAGCATTAAAAGCATGGCTAGATTACTCAGTATAAAATTCTTATGAA
AACCAAATTAAAAGCCACAGGTGTTGATTGTTAAAAATAACATGCTGCCATTCTGATTGCTAGAGTTTG
TTAGTACTTGGATGCAATTAAACTATGTCATCACATGTGAAAAGCTTAATAAATTCCATCTACAGTAGTAA
TAGGTCTCAATATTATTGAGACCAGTGGCTGGAAACAGCTTGTGTTGACCGAATCAACTGGAGTCTATGTT
AAAAAAAAAAATTTTTAAACCCTTAAATTATTGCTTAATGGTATCATATTAAACATATTCTAAATAAGGG
CTTTAAGGCACAGGCTGTTGAAGCATTCTCAGAGGAGTGGATCTGAGAACGCTGTTCTATAGAAATATT
GTGCTTACTCAAGTGTAAATTATTCTATGAACTAGTCTACTTCTTAAATTCAAACATATTCTTGTGATC
ACATTGTTCTGAGCATCCTGCCCTGCTACTAATTCAACAGGCAAATGGAGTAAAGTGGCAATTCTT
AGATGAGTGAATAACCTCAAGTCTTTCTGCCAAAAGGGAAAAGTGTAGAAATGGGGTGGCAAGTGGG
GTGAGTGGATGAAGGTGGTATTGGGGTGGCTGTGAAAGAAAATAATGGAGAATCACTTTCTAGACATCTACC
TATACTTAATCTAAGAAACAAAGTAATCTACTGTAAAGTACTCTGCCCTGAAAGAAGTATTAAAAGAGTGA
GATGGATTAGAAAAAAACATGAATTAGAAATATTCAAATGGTTTGTGGCAGATTCAATATTGAAATTCA
CAGATATTAAAGAATGAGAAAACATAGTAATTAGTAGAAATGCCAGAAAACAGTCCCTGGTCTTGTGTTGA
CACTAAGAAAATGCAAGAGTGTGAAATCTCAGATACTTATGAAATCTCACAGATGTAAGGACTCAAGTGTAGAA
GAAAATATCCCCTCTTACAAAAGAAATGTCAATTATGAGTTGTGGAAATAGGGCAAGAATTCTTATGCT
TATGAGAGCCAAGTAGTCAGTGGAAAGAGTAGAGCTAAAAGTGGATTATCACCTTAGCAACTTAGAATAGTT
GAAATAGAAAAAAAGTATTAAATTGGATCTGGATCTGTTAAGATATGCACAGTCTATTGTTGTATAGTATTGG
AAAATAAAAATGCTATAATTG

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FIGURE 349

MDRGEQGLLRTDPVPEEGEDVAATISATETLSEEEQEELRRELAKVEEEIQTLSQVLAAKEKHLAEIKRKLGINS
LQELKQNIAKGWQDVTATSAYKKTSETLSQAGQKASAAFSSVGSVITKKLEDVKNSPTFKSFEEKVENLKSKVGG
TKPAGGDFGEVLNSAANASATTTEPLPEKTQESL

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FIGURE 350A

AGGTAGCAAGATGGCCGCCGCTGAGGAAGGCTGTAGTGTCGGGGCCGAAGCGGACAGGGAATTGGAGGAGCTTCT
 GGAAAGTGCCTTGTGATTTCGATAAAAGCCAACCCCTCCCCAGCACCCCTCTACCACCACGCCCTGATGC
 TTCGGGGCCCAGAAGAGATGCCAGGAGACACTGCCAAAGATGCCCTTCGCTCCAAAGAGAAGT
 GGAACTATTGACAGTGAACCTGGCTCCAAAGCCACTGCCAGTGGAGTTCGAGAAGGCAATGAAGGAGTTGGCTGAGGA
 AGAACCCACTGGCAGTCCAAAAGCTCTCAGAGGCTGCAGGGAGAGTGGCAGTGATATGACCTCCCA
 ACAAGAAATTCACTCTGCCTAAAGGAAACACTAAGTGGATTAGCAAAAATGCCACTGACCTCAGAAACTCCAG
 CATGCGGAAGAAGAGCTGCCAAAGGCATGGAGGGCTAGGCATGGACGAAGGGATGGGAAGGGAACATCCT
 CCCCCATGCAGAGTATTATGCAGAACCTACTCTCAAGGATGTGCTGTACCCATCACTGAAGGAGATCACAGA
 AAAGTATCCAGAATGGTTGCAGAGTCATGGGAATCTACCTCCAGAGCAGTTGAAAATATCAGGAGCAGCA
 CAGCGCATGTGCAAAAATATGTGAGCAGTTGAGGAGACCCCCACAGACAGTGAAAACCACTCAAAGGCTCG
 TTTGAGATGGTGTGGATCTTATGCAGCAGTACAAGATTAGGCCATCCTCAAAGAGCTGGCTGGAGAGAT
 GCCTCCTGGCCTCAACTTGACTGGATGCCCTCAATCTTCGGGCCACCAGGTGCCAGTGGTGAACAGTGTCT
 GATCATGTGAAACACAACACGTTTCCCTCTGAGTCCCAGCTATGGGAACATCTGGAGTCAGCAGAACATTG
 GGACCTGAGGCAGGAGTGTCACCTGCGGGAGAAGTCTGCCGCTGCCCTGTCATCCCATCAAGATGTGCCA
 TACCACTGAGGTTTCCCTCTGCTCTCTAGGAATAGGGCTGTTCACAGGCCATTTCTGTGAACCCTACTCC
 ATTGTGGTTCTGCCACTATCAAAGTCCAGTACCTGCAAGGTGAAGGAAGGCATCCTTGGCATGCACT
 TTCTTCCTTCTCAAAAATATGTTATATGTGGCCACACTGATGTTCACCTTACGTCCAGGTCTTGTGCCTT
 GTCTCTACTCCCTCTGGATCTGGGGAGGAGGGCAGAGACCTGGACTCTGTATTCTATAGTCTCCTGGC
 AGAGCCTTGAGAATGGGAGAAACAGCCTGGCTGGGCTACAGGTCTGTCACTATGCTCTTGCCTTCAGAC
 AGACCATTCTGAATTCTCAAAGGAAAGGGCTTGCATCTAACAATAGAGTGAAGAGAGGCCTTAGGA
 TTCTCCTCTCTAGGTGCTGAGCCTCACCTCCGTGAGGCTGAGAACTCAAATGGTACCCCTGCTTCTC
 CTACAATGCTGTGATATGGTGAACCCAGCCCTGACCTCCCTATCCCTGCCCATCTCCTTACCTC
 CTCTCTTTTAAACACCTGTGTTATCCAACCTTTGAGCTCAAGCTGTGATAAAGAAGGGCCATCTCT
 CCCTCATCTAGCCATTACGATTCTCAGTACTCCCCGTCTCCTGGCAGACACAAAAAACCAGTGTCAGGT
 CTAGGAAATTAAATGGCTATTCTCCCAGATACATTCTGGCTTATTTGAGAATCATGATTCTTTAGAATCCGT
 CCCTTGGTTCAGGGAAAGTAGTGGAAAAGGAGTAGGGGTATAGCTGGGTCCCTTCTGCAAGGCCCCATGG
 GGCAGAATATAAAATATTCTGAGTGAGGAGTGTGGCTTTCTGATCTCCTAGCTCCGTTAAGTGCAGA
 GTGAGGTATATTAGGAGACTAGTTCTACACAATATTGTAATGCTGGTTCCATCAACACCCACCTCCACACTC
 AGTCTGCACCTCAGTGGAAAGGAGACTGGATGGCATCTTCCCTATGTTCCCTGAGTATTCAATGTGAGA
 AGCCCTTCAAGGTGGTATTATTTAACCTTTACATTTTGTTATTATGTTAGTAATATGTTATGTGTT
 TAAATTATTTCTTAAAGCTGACGTGGCTTTTCTGGGCTCCAGGTGGCTACGGACCTGGCTGACATA
 TGTTGGTAGGTACTCTGGTCAGCTGGCTGTGCTGGTCACTCAGGAAGATAAGTCTCTCCAAAGCAATTTC
 ACATGCATTATGAGTCGCTTGAGCTCTGACATGTCACTGCCCCGAGGTAAAACTTTACCCCTTGAAGAC
 CTTACATGTTTATGGTATTGGTGAGGAAGGAAATGTTCTCAAGGTCTCAGGCTATTGGGAAATCCAACTCC
 ATACCTTACCAGAGGCATGGAAAGAGCCAGATCTGAATGTAAACGTCTCTGTTCTGCCAGGAGATGGAAAAAATAC
 AGGTATACTTGGATATAGTCATGGGGCTCAGTGTCACTATTTTCTCTTAAAGCTCCAGCCAAAACTGGACA
 AGGATAGAGAGGAGGAGGGAGAAACAAAAGAGCCCTCTATGAACCTTGTGCCTCTGTCACCAGAGTTTCT
 TTTACAGATTCTCACTCTGCTAGCCTAGCCAGGGCTACTCCAGGAATCTAAATAGTCCCTAGTCCACTT
 TCTTGTGCTCCAAGGCACTCTTTATTTTGATTTTGATTTGATGAATGTGAGCAGGTTGACCTCAGGTCACACTTT
 TTCCAAAACTTTGGAATTATCCAGGACTGTGGGGAGTATGGTACTCTAGGGCAGTCTTCTCAAACTAT
 GTATGGTAAAGGACCAGGGTTTTGTTCCAGTCCCTCATTTATCAATATGCATTCTATTGCCGTAGACAGG
 ATGGAGGTCAACTGTGTGTGCCACCCGGCAAGTTGACAGCACCCAAACTGCCAGACTGTTCTGTAGGTT
 AGTCCATTGATGATCATGTACTGGATATCACAGCAACATTGAAAGCTTTTAAACACTCTCAATTCTA
 ATTCCACCATGTCACAGACTGGTAAAAAGGTGTTCACTGACCAGCACAGTCTGCAGATCATTTGT
 AGTAGCACTGTTTGGGCCCTCGGTCTCTGGAAGACCCTAGCAGAACTGTAACCTACCTGTATCTTTGT
 CTCCCTATTGAGTTCTCCAGGAACTGTTTCTCAGCAGAAGATGTGTCACTAGTAAGGACATCTAGCA
 TTCTCTAGCCTCCTTCTGCTGCAAAAATAATGTTACAAAGCTAGGTTTAAGCTGTATATGAAATTT
 ATGCACCTCAAAACTTTAAGGAGTTGTCCTTGTTCCAAATAAATGTTTAGATAAATTGTGATTGTAT

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FIGURE 350B

GGGTGGCTTCATGAATTAAGAATTGAAATTACAGACTTTGATAATAAAAAAAAAAAA

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FIGURE 351

MAAAEEGCSVGAEADRELEELLESALDDFDKAKPSPAPPSTTAPDASGPQKRSPGDTAKDALFASQEKFQELFDSELASQATAEFEKAMKELAEEEPHLVEQFQKLSEAAGRVGSDMTSQQEFTSCLKETLSGLAKNATDLQNSSMSEELTKAMEGLGMDEGDGEGNILPIMQSIMQNLLSKDVLYPSLKEITEKYPEWLQSHRESLPPEQFEKYQEQQHSVMCKICEQFEAETPTDSETTQKARFEMVLDMQQLQDLGHPPKELAGEMPPGLNFIDLDALNLSGPPGASGEQCLIM

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FIGURE 352

CGCAACGCCGGTGCCTGAGGAGCGATGCCGAGGGAAATCATCACCCTACAGTTGGGCCAGTGC GGCAATCAGATTGGGTCAGTTCTGGAAACAGCTGTGCCGAGCATGGTATCAGCCCCGAGGCAGTCGGAGGAGTTGCCACCAGGGCACTGACCGCAAGGACGTCTTTCTACCAGGCAGACGATGAGCACTACATCCCCGGCGTGTGCTGACTTGAACCCCAGAGAACATCTACTGCGGAACATGGAGGAGCTGGCAACAACGGCCAGGGATTCTCCAGGGAGAAAAGATCCATGAGGACATTTTGACATCATAGACCGGGAGGCAGATGGTAGTGCAGCTAGAGGGCTTGTGCTGTCACTCCATTGCTGGGGGACAGGCTCTGGACTGGGTTCTACCTCTAGAACGGCTGAATGACAGGTATCCTAAGAAGCTGGTGCAGACATACTCAGTGTTCCTAACCCAGGAGATGAGCGATGGGTGGCTCAGCCTTACAATTCACTCCTCACACTAACAGGGCTGACGCAAACTGCAGACTGTCTGGTGGCTGGACAACACAGCCCTGAACCGGATTGCCACAGACCGCTGCACATCCAGAACCCATCCTCTCCAGATCAACCAGCTGGTGTCTACCATCATGTCAGCCAGCACCACCCTGCGCTACCCGGCTACATGAACAATGACCTCATCGGCCTCATGCCCTCGCTCATCCCACCCACGGCTCCACTCCTCATGACCGGCTACACCCCTCTCACTACGGACCAGTCAGTGGCCAGCGTGAGGAAGACCACGGCTCTGGATGTCATGAGGCGGCTGCTGCAGCCAAGAACGTGATGGTGTCCACAGGCCAGACCAACCAGTCTGCTACATGCCCATCCTAACATCCAGGGAGGGTGGACCCACCCAGGTCCACAAGAGCTGCAAGAGATCCGGGAA CGCAAGTGGCCAACTTCATCCGTGGGCCCCCAGCATCCAGGTGGCCCTGTCAGGAAGTCTCCCTACCTGCCCTGGCCACCCAGGGCTCATGATGGCAACCACACCAGCATCTCCTCGCTCTCGAGAGAACCTGTGGCCAGTATGACAAGCTGCGTAAGCGGGAGGCCTCCTGGAGCAGTTCGCAAGGAGGACATGTTCAAGGACAAC TTTGATGAGATGGACACATCCAGGGAGATTGTGCAAGCAGCTCATCGATGAGTACCATGCGGCCACACGGCCAGACTACATCTCCTGGGCACCCAGGGCAGTGAGTCCCCCAGGACAGGGGACCCCTCATCTGCCTTACTGGTGGCCCAAGCCCTGCCTGACTGAGGACATCTCTTCTCATATACATGGACTCTCTGTTGGCCTGCAAACACATTTACTCTCCTTATGAGACTATTTATCTTAATAAAGCACTGGG

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FIGURE 353

MPREIITLQLGQCGNQIGFEFWKOLCAEHGISPEAIVEFATEGTDRKDVFYQADDEHYIPRAVLLDLEPRVIH
SILNSPYAKLYNPENIYLSEHGGAGNNWASGFSQGEKIHEIDIFDIIDREADGSDSLEGFVLCHSIAGGTGSGLG
SYLLERLNDRYPKKLVQTYSVFPNQDEMDSVVVQPYNSLLTKRLTQNADCLVVLNTALNRIATDRLHIQNPSF
SQINQLVSTIMSASTTLRYPGYMNNDLIGLIASLIPTPR LHFLMTGYTPLTDQSVASVRKTTVLDVMRLLQP
KNVMVSTGRDRQTNHCYIAILNIIQGEVDPTQVHKSLQRIRERKLANFIPWGPASIQLVALSRKSPYLP SAHRVSG
LMMANHTSISSLFERTCRQYDKLRKREAFL EQFRKEDMFKD NFDEMDSREIVQQLIDEYHAATRPDYISWGTQE
Q

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FIGURE 354A

TTTTAAATTCGATTTGACTTAAAGGCC**AT**GAGAAAATTGCATACTGCAAGGTGGTCTAGCCACCTCCTT
GATTGGGTACTCTGGATATGTCCTGCTGTTACTTCAGTGAATGCAACAAATGTGATGAAAAAAAGGAGAG
AGGACTTCCTGCTGGAGATGTTCTAGAGCCAGTACAAAAGCCTCATGAAGGTGGAGAAATGGGAAACCAGT
CGTCATTCTAAAGAGGATCAAGAAAAGATGAAAGAGATGTTAAAATCAATCAGTTCAATTAAATGGCAAGTGA
GATGATTGCACTAACAGATTTACCAAGATGTTAGGTTAGAAGGGTGTAAAACAAAGGTGTATCCAGATAATCT
TCCTACAACAAGTGTGGTATTGTTCCACAATGAGGCTGGAGCACACTCTGCGAAGTGTCCATAGTGTCA
TAATCGCTCACCAAGACACATGATAGAAGAAATTGTTCTAGTAGATGATGCCAGTGAAAGAGACTTTGAAAAG
GCCTTAGAGAGTTATGTGAAAAAAACTAAAAGTACCAAGTTCAATGTAATTGAATGGAACAACTGTTCTGGATTGAT
CAGAGCTAGATTAAAGGAGCTGCTGTTCTGGCAGGATCAAACATGACAGGAGAACAGTGGTGTGCCCCATCATCGATGT
AGTGGGATGGCTGGAGCCTCTTGGCAGGATCAAACATGACAGGAGAACAGTGGTGTGCCCCATCATCGATGT
GATCAGTGTGATGATACTTTGAGTACATGGCAGGCTCTGATATGACCTATGGTGGGTTCAACTGGAAGCTCAATT
TCGCTGGTATCTGTTCCCCAAAGAGAAATGGACAGAACAGGATGGTGTGACTGGACTCTCTGTCAGGACACCTAC
CATGGCAGGAGGCCCTTTCAATAGACAGAGATTACTTCAGGAAATTGGAACATATGATGCTGGAAATGGATAT
TTGGGGAGGAGAAAACCTAGAAATTCTTAGGATTGGCAGTGTGGAGGAACCTGGAAATTGTTACATGCTC
ACATGTTGGACATGTGTTGGAAAGCTACACCTACACGTTCCAGGAGGCACAGGGCAGATTATCAATAAAA
TAACAGACGACTTCGAGAAGTGTGGATGGATGAACTCAAGAATTCTTCTATATAATTCTCAGGTGTTACAAA
GGTAGATTATGGAGATATATCGTAAGAGTTGGCTTAAGACACAAACTACAATGCAAACCTTTCTGGTACCT
AGAGAATATATATCTGATTCTCAAATTCCACGTCACTATTCTCATTGGAGAGATACGAAATGTGGAACAGAA
TCAGTGTCTAGATAACATGGCTAGAAAAGAGAATGAAAAGTTGGAATTTTAATTGCCATGGTATGGGGGTAA
TCAGGTTTCTTACTGCCAACAAAGAAATTAGAACAGATGACCTTGCTGGATGTTCCAACATTAAATGG
CCCAGTTACAATGCTCAAATGCCACACCTAAAAGGCAACCAACTCTGGAGTATGACCCAGTGAAATTAAACCT
GCAGCATGTGAACAGTAATCAGTCCTGGATAAAGCCACAGAACAGGAGTAGCCAGGTGCCAGCATTAGAGACTG
CAATGGAAGTCGGTCCCAGCAGTGGCTCTCGAAACGTCACCCCTGCCAGAAATATTCTGAGCAAAATTACAA
AAAAACGAAAAAAATAAGGATTGACTGGCTACCTCAGCATACTTCGCCCCACATTCTTAAGTAGCAAAAGG
AAAAGTCTTCCCTCTGAGGATGTAAGGTTATCAGCATTAAACTTAGACTTCTAGCTTTACTAG
CTGTGAACCAGCCTCTGTCATGGACGTGAAACTGCATAGTAATGAGACTGTGACACTGATGTTACAAGAT
TGAAAGAGTCTTCTCCGAAATCATGGTAAAGAATACTGAGACAATGAAAAAAATCAACAAAATATGCTTCT
GGAGAACTGTACCTCTATGGTTGCTGCACATCAGTAGTTCTGCTGAACGTGCTGTCATAATGAAGAGATT
CCAAGATTCTGATTAGAACGGTAGCCAGTATTTAATTGATAGAAAATAAAAGAACGTGGAACC
AGATTCAAAACACATTTCACAACAAACAAAAAAACTATATTAAACAGGGTTAAAGGAAAATT
AAAACAGAACTATGAAGAAGTACAATTGTTATAGTATAGTCAAATTCTATATAGATTTCACCTCAGTGG
GGAAAAAAACTGATTCAATGACATTCAATTGTTCATCTGTGATAGTCAGGATGCTTTATTCTGTTGG
GGTGTGAAATTGAGCTGAAAAAAAGGCTTTGAATATAGTTAATTCTCTACAGTTTTGGTTG
GTTTGTGGGCTGTTGGAATTGTAATTTTAATTGCCCTCTAAAAATGGAATTAAACATGCTGATCTCAGCT
GAACAAATTAGATTTGCTGAGTGTCTGGGTCACAGATTACATGTCACACACACACAAATT
TTATCACATTTCGACTCTCACTGACCTAATGATTATGCAAAATACCAAGATTGCTACTGTTCCACA
TTGTTTACAGCAATAAACTTCAGTTCTGTTGTTATGATTCCACTTAACAAGGGCCTGCAAATGTGATT
ATTATTGGTATTGGAGATAATACATTGAGGGTTTTGGAAAACCTTTACTCCATACTCAAATATGCT
TCATTGTCATGCAATTAAATTGAAATTGTAATGTTATCTGCTGTTTTAAATAAAATT
ACTGAAAATGTTAATTGGCATTGTTATGACTTACCCAAGAAAAGTGCAGCTATTCTCATTAATAGGCT
TGCATTCTTCTAAATCTTATTAGGCTAAATCAGTTATTGCTCTGATTGTTAAATACCACAGAAA
TCACCTGAGTGTCAATTGAAAAGTGTCAATTAAAGGTAACCTTTAACTCTCGTAGGAGGAATCTCATTAAAGA
CATTTCTGATATGTAGAGCAGTGTGGAAAAATGCATATATTCTTCATATTGTAATGTTAAATT
AATGGAATTCTTCTTGATTATCAAGGACTTCACTGCAAGGCAGTGTATTCTGCTGCTTAAGAATGTTCC
AAAAGTCGATCGTAATGATATTGCCAAGTTGAGTGTACACAAAGTTCTCATATCTGTTCAAGTAAATCAA
CATCAAACACATGGGATGCTTAGGGTGAGTCTATAACAAAATGCATAAACCATGCCCCAGGAAATTGAA
AGGAAGCAAGTGTGAATGGAATTCTTCCATGAGCTGTGTTAATTCTATCTCCAGTAGGCTTAATG
TTGAAATAAGCAAGATGTCAATCAATAATTATTTCATGCTCAGAATTTCAGGTTTGACTCCAGCAGTAC

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FIGURE 354B

TTGGTCTTATTCCTTACTGTATGAAAGCTAACAGCAATGTGATTAAAGGTTTGTTAAATGGGAGATGTAAG
TGATTTAATTCATGGGTACTTTAGAACCTGATAGATAATCCCATTGCCTTATTTCTAATTAAAGAACCTA
AATACTTGAAAATACAAAATATCCTG

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FIGURE 355

MRKFAYCKVVLATSLIWVLLDMFLLLYFSECNKCDEKKERGLPAGDVLEPVQKPHEGPGEKGKPVVIPKEDQEKM
KEMFKINQFNLMASEMIALNRSLPDVRLEGCKTVYPDNLPTTSVVIVFHNEAWSTLLRTVHSVINRSPRHMIEE
IVLVDDASERDFLKRPLESYVKKLKPVHVIRMEQRSGLIRARLKGAAVSKGQVITFLDAHCECTVGWLEPLLAR
IKHDRRTVVCPIIDVISDDTFEYMAQSDMTYGGFNWKLNFRWYPVPQREMDRRKGDRTPVRPTMAGGLFSIDR
DYFQEIGTYDAGMDIWGGENLEISFRIWQCGGTLEIVTCSHVGHVFRKATPYTFPGGTGQIINKNNRRLAEVWMD
EFKNFFYIISPGVTKVGYGDISSRVGLRHKLQCKPFSWYLENIYPDSQIPRHYSLGEIFRNVETNQCLDNMARKE
NEKVGIFNCHGMGGNQVFSYTANKEIRTDDLCLDVSKLNGPVTMLKCHHLKGNQLWEYDPVKLTQHVNSNQCLD
KATEEDSQVPSIRDCNGRSQQWLLRNVTLPEIF

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FIGURE 356

CCGGCCGGCGAAGAGTTACAAGTGTGAAGCCTGAAGCCGCCGGTGCCGCTGTGTAGAAAGAAGCTAAAGCAC
TTCCAGAGCCTGCTGAGCTCAGAGGTTCGGAAGACTTATCGACC**ATGGAGCGCGTCCTGCTTGTGCTGC**
TGCTGCCGCTGGTGCACGTCTGCGACCACGCCAGAACCTTGTGAGCTGGACGATGAAGATTCCGCTGCGTCT
GCAACTTCTCCGAACCTCAGCCCCACTGGTCCGAAGCCTCCAGTGTGTGTCTGCAGTAGAGGTGGAGATCCATG
CCGGCGGTCTAACCTAGAGCCGTTCTAAAGCGCGTCGATGCGGACGCCGACCCCGGGCAGTATGCTGACACGG
TCAAGGCCTCCCGCTGCGGGGCTCACAGTGGGAGCCGACAGGTTCTGCTCAGCTACTGGTAGGCGCCCTGC
GTGTGCTAGCGTACTCCCGCTCAAGGAACGTGACGCTCGAGGACCTAAAGATAACC GG CACCATGCCTCCGCTGC
CTCTGGAAGCCACAGGACTTGCACCTTCCAGCTTGCCTACGCAACGTGCTGGCGACAGGGCTCTTGGC
TCGCGAGCTGCAGCAGTGGCTCAAGCCAGGCCTCAAGGTACTGAGCATTGCCAAGCACACTGCCCTGCCTTT
CCTGCGAACAGGTTCGCGCCTTCCCAGGCTTACCGCCTAGACCTGTCTGACAATCCTGGACTGGCGAACGCG
GACTGATGGCGGCTCTGTCCCCACAAGTCCCGGCCATCCAGAATCTAGCGCTGCGAACACAGGAATGGAGA
CGCCCACAGCGTGTGCGCCGACTGGCGCCGGCAGGTGTGCAGCCCCACAGCCTAGACCTCAGCCACACTCGC
TGC CGCCACCGTAAACCTAGCGCTCCGAGATGCATGTGGTCCAGGCCCTGAACTCCCTCAATCTGCGTTCG
CTGGGCTGGAACAGGTGCTAAAGGACTGCCAGCCAAGCTCAGAGTGTGCTGATCTCAGCTGCAACAGACTGAACA
GGCGCCCGCAGCCTGACGAGCTGCCAGGTGGATAACCTGACACTGGACGGGAAATCCCTTCTGGTCCCTGGAA
CTGCCCTCCCCACGAGGGCTCAATGAACCTCCGGCTGGTCCCAGCCTGTGCACGTTGCACCCCTGTGCGGTGGGG
TGTGCGGAACCCCTGGTGTGCTCCAAGGGGCCGGGCTTGCC**TAA**ATCCAAGACAGAATAATGAATGGACTC
AAACTGCCCTGGCTTCAGGGAGTCCCGTCAGGACGTTGAGGACTTTGCACCAATTCAACCCCTTGCCCCACCT
TTATTAAAATCTTAAAC

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FIGURE 357

MERASCILLLLLPLVHVSATTPEPCELDDDEFRCVCNFSEQPQPDWSEAFQCVSAVEVEIHAGGLNLEPFLKRVDA
DADPRQYADTVKALRVRRLTVGAAQVPAQLLVGALRVLAYSLKELTILEDLKITGTMPPPLPLEATGLALSSLRLR
NVSWATGRSWLAELOQWLKPGLKVLSIAQAHSPAFSCEQVRAFPALTSDLSDNPGLGERGLMAALCPHKFPAIQ
NLALRNTGMETPTGVCAALAAAGVQPHSLDLSHNSLRATVNPSSAPRCMWSSALNSLNLSFAGLEQVPKGLPAKLR
VLDLSCNRLNRAPQPDELPEVDNLTLGNPFLVPGTALPHEGSMNSGVVPACARSTLSVGSGTLVLLQGARGFA

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FIGURE 358

CCGCCGGCCGGGGCGCCTGGCTGCACTCAGCGCCGGAGCCGGGAGCTAGCGGCCGCCATGTCCCACCAAGACCG
GGCATCCAAGCAAGTGAAGATGTTAAAGAGATCTTGCCAGAGCCAGAAATGGAAAGTACAGACTTCTGAAAATA
TCTATTGAAAATGAGCAACTTGTGATTGGATCATATAGTCAGCCTTCAGATTCTGGATAAGGATTATGATTCC
TTTGTGTTACCCCTGTTGGAGGACAAACAACCAGCTATATATTATTAGGTTAGATTCTCAGAATGCCAGGG
TATGAATGGATATTCAATTGCATGGTCTCCAGATCATTCTCATGTTGTCAAAAATGTTGATGCAGCAACAAAGA
GCAACTCTGAAGAAGGAATTGGAGGTTGCCACATTAAAGATGAAGTATTGGAACAGTAAGGAAGATGTATCA
TTACATGGATATAAAAATACTTGCTGTACAAATCTCCCTGCCCACTGACTGCAGCTGAGGAAGAACTACGA
CAGATTAATCAATGAGGTACAGACTGACGTGGGTGGACACTAACGATCAAACACTAACAGGAGTAGCATT
CCCATTCTCGAGAAGCCTTCAGGTTGGAAAAATTGAATAATAGACAGCTCAACTATGTCAGTTGGAAATA
GATATAAAAATGAAATTATAATTGCCAACACAACAAATACAGAACTGAAAGATTGCAAAGAGGATTCCC
AAGGATTCACTCGTTACCATTTCTTCTGTATAAACATTCCATGAAGGAGACTATTTAGAGTCATAGTTTT
ATTTATTCAATGCCCTGGATACACATGCAGTATAAGAGAGCGGATGCTGTATTCTAGCTGCAAGAGGCCGTGCTA
GAAATTGTAGAAAGACAACCTACAAATGGATGTAATTAGAAAGATCGAGATAGACAATGGGGATGAGTTGACTGCA
GACTTCCTTATGAAGAAGTACATCCCAAGCAGCATGCACACAAGCAAAGTTGCAAACAAAGGTCCTGCA
GGAAAAAGAGGAATTCAAGAGACTAATTAGGGGCCAGCGGAAACTGAAGCTACTACTGATTAAAGTCCATCACATT
AAACATTGTAATACTAGTTTTAAAAGTCCAGCTTTAGTACAGGAGAACTGAAATCATTCCATGTTGATATAA
AGTAGGGAAAAAAATTGTACTTTGGAAAATAGCACTTTCACTTCTGTGTGTTTAAAATTATGTTATAGA
AGACTCATGATTCTATTGAGTTAAAGCTAGAAAAGGGTCAACATAATGTTAATTGTCACACTGTTT
CATAGCGTTGATTCCACACTCAAATACTCTTAAAATTTATACAGTTGGCCAGTTCTAGAAAGTCGATGTC
TCAAAGGGTAAACTACTACTTTCTGTGGACAGAAAGACCTAAATATTCAATTACTTAATGAATATGTTA
AGGACCAGGCTAGAGTATTCTAAGCTGAAACTTAGTGTGCCTGGAAAAGCCGCAAGTGCTTACTCCGAGT
AGCTGTCTAGCTGTCACTGTAGGATCATGCTGCAACTTTAGAAATAGTGTCTTATATTGCAAGCAGTCT
TTTATATTGACTTTTTAAATGCAATTAAATTGCAAGTCACTCTGAAACTTTAACAGCCTTAGTAAATTCTTCTAATGCTCTG
TGAGGCCAAACATTGAGTTCAAGTGAATTAAATTATCATTCAAAGGAAACAAAAATGTTGAGTTT
AAAAATCAGGATTGACTTTCTCAAAACATACATTATGGCAAATTGTTCTTATCATTCCGAGCAA
ATACTCAGATTAAATTACTTAAAGCTCTGGTACTAACAGGCTAACGTAGATAAACACCTTAATACTCAG
TTAATACTGATTCTAAACACATTAAACTGTTCTAATGCTTGCATTATCAGTTACAACCTAGAGGAGATT
GAGCCTCATATTCTTGATACTTGAATAGAGGGAGCTAGAACACTTAATGTTAATCTGTTAAACCTGCTGCA
AGAGCCATAACTTGAGGCATTCTAAATGAACTGTGGGATCCAGGATTGTAATTCTGATCTAAACCTTA
TGCTGCATAATTCACTTATCGGAAATGCACATTCTAGTGTGAAGCACTCATTCTAAACCTTATTCTAAGG
TAATATGACCTTCAAGAAATTGTTGAGTAAGTAAAGCATATTAGAATAATTGTTGAGGTTGACAGATT
AAAAATAGAATTAGAGTATTGGGTTTGTGTTACAAATAATCAGACTATAATTAAACATGCAAAT
AACTGACAATAATGTTGCACTTGTAACTAAAGATATAAGTGTGTTACTGGGTGACACGTAGACAGACACACAT
ACACCCAAATTATTGCAATTAGAACATCTGGAGCAGACCAGCTGAAGCTGTTATTCTAGTCAGGAAGACTACC
TGTGATGAAGGTATAAAATAATTAGAAGTGAATGTTTCTGTACCATCTATGTCATTACTCTAAATTCC
ACTACACTACATTAAAGTAAATGGACATTCCAGAATATAGATGTGATTATAGTCTTAAACTATTATTAAAC
CAATGATTGCTGAAAATCAGTGATGCATTGTTAGAGTATAACTCATGTTACAGTATGTTAGTTGGCAG
TATCATAACCTAGATGGTGAATAACATATTCCAGTAAATTATAGCAGTGAAGAATTACATGCCCTCTGGTGG
ACATTTTATAAGTGCATTATATCACAATAAAATTCTCTTTAAAAAAACAGAAAAAAACAGAAAAAA

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FIGURE 359

MSHQQTGIQASEDVKEIFARARNGKYRLLKISIENEQLVIGSYSQPSDSWDKDYDSFVLPLLEDKQPCYTILFRLDS
QNAQGYEWIFIAWSPDHSHVRQKMLYAATRATLKKEFGGGHIKDEVFGTVKEDVSLHGYKKYLLSQSSPAPLITAA
EEELRQIKINEVQTDVGVDTKHQTLOGVAFPISREAFQALEKLNNRQLNYVQLEIDIKNEIIILANTTTELKDL
PKRIPKDSARYHFFFLYKHSHEGDYLESIVFIYSMPGYTC SIRERMLYSSCKSRLLEIVERQLQMDVIRKIEIDNG
DELTADFLYEEVHPKQHAKQSFAKPKGPAGKRGIRRLIRGPAETEATT

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FIGURE 360

GTCCCGCGTCGCTAGCTAGTCGTTCTGAAGCGGGGCCAGAGAAGAGTCAAGGGCACGAGCATGGGTAGCCATGC
CTTTCTTGGACATCCAGAAAAGGTTCGGCCTAACATAGATCGATGGTTGACAATCCAGAGTGGTGAACAGCCCT
ACAAGATGGCTGGCGATGCCATGCTTGAAAAAGAATGGATAGAATGTGCACATGGAATCGGTTATACTCGGG
CAGAGAAAGAGTGCAAGATAGAATATGATGATTCTGTAGAGTGTGTTGCTTCGGCAGAAAACGATGAGACGTGCAG
GTACCACATCAGGAAGCAGCGGGATAAGCTGATAAAGGAAGGAAAGTACACCCCTCACCTCACCAATTGGCAAGG
GGGAGCCTCGGCCTGAACAGAGCAGCTGCTGATGCTGGAGGCTGATTTCTGTTCTGTTCTCCACTGGAA
AGGTTGTTACGACAAACCTCCTGTCAAAGTGTAAAAATAAAGGATTGCTCCATCCTAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAA

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FIGURE 361

MPFLDIQKRGGLNIDRWLTIQSGEQPYKMAGRCHAFEEKWIECAHGIKYTRAEKECKIEYDDFVECLLRQKTMRR
AGTIRKQRDKLIKEGKYTPPHIGKGEPRP

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FIGURE 362

CGGACGCGTGGGGCCGGGGGCTGAGGCGCCGCCCTGCCGCCGGGCGCTCGGTCTCCATGGAGGCCG
GAGAGGAACCGCTGCTGCCGAACTCAAGCCGGCGCCCCCACCAGTTGATTGAAAGTCAGCTGTGAAA
CCTGGAGCGTCGCCTCTCCCCAGATGGCTCTGGCTCAAGGACACTGCATCGTCAAACGTGATCC
CCTGGCCGTTGGAGGAGCAGTTCATCCCTAAAGGGTTGAAGCCAAAGCCGAAGTAGCAAAAATGAGACGAAAG
GGCGGGCAGCCAAAAGAGAAGACGCTGGACTGTGGTCAGATTGTCAGCTGGGCTGGCCTCAGCCCCTGGCCTT
CCCCACCCAGCAGGAAGCTCTGGCACGCCACCACCCCAAGTGCCGATGTCCTTGCTGGTCTTGTACGG
GACTCAACGATGGCAGATCAAGATCTGGAGGTGCAGACAGGGCTCTGCTTTGAATCTTCCGGCACCAG
ATGTCGTGAGAGATCTGAGCTTACACCCAGTGGCAGTTGATTGTCAGCTCCGTCACGGATAAGACTCTC
GCATCTGGGACCTGAATAAACACGGTAAACAGATTCAAGTGTATCGGGCACCTGCAGTGGTTACTGCTGTT
CCATCTCCCAGACTGCAGCATGCTGCTGCAGCTGGAGAGAAGTCGGTCTTCTATGGAGCATGAGTCCT
ACACGTTAATCGAAGCTAGAGGGCATCAAACGAGTGTGACTCTCCCGACTCTGCCCTGC
TTGTCACGGCTTCTACGATACCAATGTGATTATGAGGACCCCTACACCGCGAAAGGCTGAGGTCACTCCACC
ACACCCAGGTTGACCCCGCCATGGATGACAGTGACGTCCACATTAGCTCACTGAGATCTGTTGCTTCTCCAG
AAGGCTTGTACCTGCCACGGTGGCAGATGACAGACTCTCAGGATCTGGCCCTGGAAGTAAAACCTCCATTG
CATTGCTCTATGACCAATGGCTTGCTGCACATTTCACATGGTGGAGTCATTGCCACAGGGACAAGAG
ATGGCCACGTCCAGTTCTGGACAGCTCTAGGGCTGCTCACTGAAGCACTATGCCGAAAGCCCTCGAA
GTTTCCTAACAACTTACCAAGTCTAGCAGTCCAATCCCCAAGAAAATGAAAGAGTCTCACATACAGGACTT
TTTAAGCAACACCACATCTGTGCTTGTAGCAGGGTAAATGTCCTGTCAAAGGGAGTTGCTGAAATAATG
GCCAAACATCTGGCTTGCAATTGAAATAGCATTCTGGATTGTGAATAGAATGTAGCAAAACAGATTCCA
GTGTACTAGTCATGGATCTTCTCCCTGGCATGTGAAAGTCAGTCTAGAGGAAGAGATTCCACTTGCACGGC
AACAGAGCCTACGTTAAATTTCAGTCCAGTTATGAAACAGCAAGTGTGAACTCTTCTGTTGATTCA
AAGTGCAGTTACTGATGTTGTTGATTATGCAACTAAGTAGGCCTCCAGAGCCTCTCTAGGGCAGAGCAGCTC
ACACTCCCTCCGCTGGAACGATGGCTCTGCCTAGTACCTATCCTGTGTTGATGCACTGGTAGCATTGGT
TCAAGTCTCTCTGCTGTGGTCAGAGTTGCTCGATGTTGGCCAAGTGCTTCTTCTGGCTCCCTCTGAC
CTGCAGGACAGTTCTGGAGCCATTGGTATGAGGTATTAATTAGCTTAACAGATGTTAAGGTACAACGTGTTTCTG
GCCGTGCTCTGACCGATCCAGACACTATTACTGGTTTTTTTTAACAATGGTGTGATGTGAGGAAA
TGACAAATTGATGTCAGATTATAAGGATGATTCTAAACCGCATGACTATTAGCTACTGAGTTAT
CAGTGGCCATTATTAGCATATTGTTCTAACAGATGTTAAGGTACAACGTGTTTCTG
TTATCTAAAAACCATAGTACTTAAATTGAAACAGTGCAAAGATGTCTTAATTGTTAAAGAATTGGTAGTCAT
GACTTTAGCTGATACTCTTATGTCAGAGATCTGCTCTGCTGTTAACCTCATTGATTAAATCAGCTGGTTCAA
CTCTACTGCGAAACAAAATAGCTCTTAAAGTACTGTTCTCCCTCAGTGGCATGTAGTTATCTAACAGACA
CCTCATTCAAACAAAACCTGCCCTAGGAAAATTAAATATATTAAATTAAAAGAAATACAACATCTTAT
TCTTAGCTTCTTAATCGGTGCTTATGGAGGCCAGTGTAACTGACTCGTTGAGAAAGTTGAGGAATT
TCCTCTACCACCTTGTGCTGAAGAAAATGAGAGGCTTCATTGAAGAAAAGAAAA
AACAAACAGTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 363

MEAGEEPLLALAEKPGRPHQFDWKSSCETWSVAFSPDGSWFAWSQGHCIVKLIPWPLEEQFIPKGFEAKSRSSKN
ETKGRGSPKEKTLDCGQIVWGLAFSPWPSPPSRKLWARHHPQVPDVSCVLATGLNDGQIKIWEVQTGLLLLNL
GHQDVVRDLSFTPSSLILVSASRDKTLLRIWDLNKHGKQIQVLSGHLQWVYCCSISPDCSMLCSAAGEKSFLWS
MRSYTLIRKLEGHQSSVVSCDFSPDSALLVTASYDTNVIMWDPYTGERLRLSLHHTQVDPAMDDSDVHISSLRSVC
FSPEGLYLATVADDRLLRIWALELKTPIAFAPMTNGLCCTFFPHGGVIATGTRDGHVQFWTAPRVLSSLKHLRK
ALRSFLTTYQVLALPIPKKMKEFLTYRTF

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FIGURE 364

ATATAACCGCGTGGCCCGCGCGCGCCTCCCTCCCGCGCAGTCACCGCGCGGTCTATGGCTGCGACTTCTCT
AATGTCTGCTTTGGCTGCCGGCTGCTGCAGCCCCGCGCACAGCTGCTCCCTCGCCCTTCACCTCGC
GGCAGTTCGAAATGAAGCTGTTGTCATTCTGGAAGGAAACTGGCCCAGCAGATCAAGCAGGAAGTGCGGCAGGA
GGTAGAAGAGTGGGTGGCCTCAGGCAACAAACGCCACACCTGAGTGTGATCCTGGTGGCGAGAACCTGCAAG
TCACT CCTATGTCTCAACAAAACCAGGGCAGCTGCAGTTGTTGGAAATCAACAGTGAGACAATTATGAAACCAGC
TTCAATTTCAGAGGAAGAATTGTTGAATTAACTAATAACTGAATAATGATGATAATGATGAGATGGCCTCCTTGT
TCAGTTGCCTCTCCAGAGCATATTGATGAGAGAAGGATCTGCAATGCTGTTCTCCAGACAAGGATGTTGATGG
CTTTCATGTAATTAAATGTTAGGAGCAATGTGTTGGATCAGTATTCCATGTTACCGGCTACTCCATGGGTGTG
GGAAATAATCAAGCGAATGGCATTCCAACCTAGGGAAGAATGTTGGGTGGCTGGAAGGTCAAAAACGTTGG
AATGCCATTGCAATGTTACTGCACACAGATGGGGCGCATGAACGTCGGAGGTGATGCCACTGTTACAATATC
TCATCGATATACTCCCAAAGAGCAGTTGAAGAACATACAATTCTGAGATATTGTAATATCTGCTGAGGTAT
TCCAAATCTGATCACAGCAGATATGATCAAGGAAGGAGCAGCAGTCATTGATGTTGGAAATAAATAGAGTTCACGA
TCCTGTAACTGCCAAACCCAAAGTGGTGGAGATGTTGAGATGTTGAAGGAGTCAGACAAAAAGCTGGTATATCAC
TCCAGTTCCCTGGAGGTGTTGGCCCCATGACAGTGGCAATGTAATGAAGAACATTATTGCTGCAAAAAGGT
GCTGAGGCTTGAAGAGCGAGAAGTGTGAAGTCTAAAGAGCTGGGTAGCCACTAATTAACTACTGTTCTTCT
GTGTCACAAACAGCACTCCAGGCCAGCTCAAGAACAGCAGGCCAATAGAAATGCAATATTTAATTTC
TACTGAAATGGTTAAATGATGCTTGTATTATTGAAAGCTTAAATGGGTGGGTGTTCTGCACATACCTCTG
CAGTACCTCACCAGGGAGCATTCCAGTATCATGCAAGGGCTGTGATCTAGCCAGGAGCAGCCATTACCTAGTG
ATTAATATGGGAGACATTACCATATGGAGGATGGATGCTTCACTTGTCAAGCACCTCAGTTACACATTGCCCT
TTCTAGGATTGCAATTCCAAGTGTCTATTGCAATAACAGTTGATACTATTAGGTACAGACCTTGTGAGTT
AACTGATCAAACCAAAGGAAAAGTGTGCTAGAGAAAATTGGGAAAGGTGAAAAAGAAAAATGGTAGTAATT
GAGCAGAAAAAAATTAAATTATATGTATTGATTGGCAACCAGATTATCTAAGTAGAACTGAATTGGCTAGGA
AAAAAGAAAAACTGCATGTTAATCATTCTTAAGCTGCTTGTGAGGCTTAGTCAGTTATTGGAAAATGTT
TAGGATTATTCTTGCTATTAGTACTCATTATGTATGTTACCCCTCAGTAAGTCTCCCCATTAGTTCT
AGGACTGAAAGGATTCTTTCTACATTATACATGTGTGTTGTCATATTGGCTTTGCTATATACTTIAACTTCA
TTGTTAAATTGGTATTGTATAGTTCTTGGTGTATCTAAACCTATTGGAAAACAAACTGGCTTGAT
AATCATTGGCAGCTGGTAAGTACGCAACTTACTTTCCACCAAGAACACTGTCAGCTGCCTGCTTCT
GTGATGTATGTATCTGTTGACTTTCCAGAAATTGTTAAGAGTTGAGTTACTATTGAAATTAAATCAGACTTT
CTGATTAAAGGGTTTCTTCTTTAATAAAACACATCTGCTGGTATGGTA

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FIGURE 365

MSALAARLLQPAHCSLRLRPFHAAVRNEAVVISGRKLAQQIKQEVRQEVEEWASGNKRPHLSVILVGENPAS
HSYVLNKTRAAAVVGINSETIMKPASISEEELLNLINKLNNDNVGLLVQLPLPEHIDERICNAVSPDKDVG
FHVINVGRMCLDQYSMLPATPGVWEIIKRTGIPTLGKNVVVAGRSKNVGMPIAMLLHTDGAHERPGGDATVTIS
HRYTPKEQLKKHTILADIVISAAGIPNLITADMIKEGAAVIDVGINRVHDPVTAKPKLVGVDFEGVRQKAGYIT
PVPGVGPMTVAMLKNTIIIAAKKVLLEEREVLKSKELGVATN

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FIGURE 366

GGTAGTTGGTTGTGGGCACGGGTTAGAGGTATCACGTGGGGCAGTTCGTCTAGCTTTGGACAAGACGCAG
GCGCAACCCACGGCTGCTGCCGGATCCTGTGGCCCTTCCGGTCGGTGGAACCAATCCGTGCACAGAGAACGG
GGCGAACCTGAGGCAGTGAAAGTGGACTCTGAGGGCTACCGCCTACCGCCACTGCTGCCAGGGCGTGGAGGGCA
GAGGGCCGCGAGGCCGAGTTCAAACATGGCTCAGAGCAGAGACGGCGAACCCGTCGCCAGGCCAGCGA
GCTTGACAACCCCTTCAGGACCCAGCTGTGATCCAGCACCGACCCAGCCGGCAGTATGCCACGCTTGACGTCTA
CAACCCCTTTGAGACCCGGGAGCCACCACCAGCCTATGAGCCTCCAGCCCCATTGCCCTCACCCCTCAGC
TCCCTCCCTGAGCCCTCGAGAAAGCTCAGCCCCACAGAACCTAAGAACTATGGCTCATACAGCACTCAGGCCTC
AGCTGCAGCAGCCACAGCTGAGCTGAGAAACAGGAGGAGCTAACCGGAAGGCAGAGGAGTTGGACCGAAG
GGAGCGAGAGCTGCAGCATGCTGCCCTGGGGGACAGCTACTCGACAGAACAAATTGGCCCCCTACCTCTTT
TTGTCCAGTTCAGCCCTGCTTTCCAGGACATCTCATGGAGATCCCCAAGAATTTCAGAAGACTGTATCCAC
CATGTACTACCTCTGGATGTGCAAGCAGCTGGCTCTCTCTGAACCTCCTGCCCTGCCAGCTCTGTGT
GGAAACCAACAATGGCGCAGGCTTGGCTTCTATCCTCTGGGTCTCCTTACTCCCTGCTCTTGCTG
CTGGTACCGCCCCATGTATAAGGCTTCCGGAGTGACAGTTCATTCAATTCTCGTTTCTTCTCATTTCTT
CGTCCAGGATGTGCTCTTGTCCCTCAGGCCATTGGTATCCCAGGTTGGGATTAGTGGCTGGATCTGCTCT
GGTGGTGCGAAGGGCAACACAGCAGTATCCGTGCTCATGCTGGCTGCCCTGCTCTCACTGGCATTGCTGT
GCTAGGAATTGTATGCTGAAACGGATCCACTCCTTATACCGCCGCACAGGTGCCAGCTTCAAGGGCCAGCA
AGAATTGCTGGTGTCTCTCCAACCCCTGCGTGCAGACCGCAGCTGCCAATGCAGCCCTGGGCTGCTGA
AAATGCCCTCCGGCCCCGTGACCCCTGACTGGGATGCCCTGGCCCTGCTACTGAGGGAGCTGACTTAGCTCCC
GTCCCTAAGGTCTGGGACTTGGAGAGACATCACTAAGTGGCTCCTCCGTAGTGCTCCAATCCTATGGCC
ATGACTGCTGAACCTGACAGGCAGTGGGGAGTTCACTGTGACCTAGTCCCCCATCAGGCCACACTGCTGCCAC
CTCTCACACGCCCAACCCAGCTTCCCTGCTGTGCCACGGCTGTTGCTCGTTATTAAATAAAAGAAAGT
GGAACCTGGAACAGACAAAAAAA

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FIGURE 367

MAQSRDGGNPFAEPSELDNPFQDPAVIQHRSRQYATLDVYNPFETREPPPAYEPPAPAPLPPPSAPSLOPSRKLS
SPTEPKNYGSYSTQASAAAATAELLKKQEELNRKAEELDRRERELQHAALGGTATRQNNWPPLPSFCPVQPCFFQ
DISMEIPQEFQKTVSTMYYLWMCSTLALLLNFLACLASFCVETNNGAGFGGLSILWVLLFTPCSFCVWYRPMYKAF
RSDSSFNFFFVFFFIFFVQDVLFVLQAIGIPGWGFSGWISALVVPKGNTAVSVLMILLVALLFTGIAVLGIVMLKRI
HSLYRRTGASFQKAQQEFAAGVFSNPAVRTAAANAAAGAAENAFRAP

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FIGURE 368

GAATTCCGGGTTGAAAAGGAGTTCTAGGGAAGAAGAGAGTTAGTAGCACATCAATGGGAGCAGGGCTTACCCACGTGGTGTACATATATATTATTCATACATGGTTCTGGCTCATAGTCCTAGCCTTGCTATAGTCTTTGTGTCGGCTTAAGGGCAGGACTGTACTCTCCCTCACCTTCTAATTGTGCATCTTAAGACCTCCCCAGAGAGGGTGGTGCCTGTAGTTGTGGGAAGGAATGCTGGCATCATGAAGCTCCATAAAACCCGAGAACAGAGCTCTGGATAGCTGGACACATGGAGGTCTGGAGGGTGGAGGCCAGGGAGGCATGGAAGGCTCCACAGCCCTCCCCCCTACACCTTACCCATTTCCTCTGTATCCTTTGTAATATCCTTATGATAAAACCAGCAAATGTGTGTAATGTTCCCTAAGGTCTGTGCCACTCCAGCAAATTAAITGAACCTAAAGAGGGGCGTGGGAACCCCAACTTGAAGCCAGTCAGTCAGAAGTTCTGGATGTCCAGACTTCAGACTGGTGTCTGAAAGGGTGGAGGCAGTCTGGGACCGAGCCCCCAATCTATGGGATCTGACACTATCTCCAGTAGTGTGGAAATTGAGTCACCAGCGTGTCCACTGGTTAGTGTGAAGAAACTCCCTACCATTGGTCACAGAAGTCTCTCTGTGTTGATAGTTGAGCAGCAGAGGAAAAACAAAAGTCAGAAAGAGTTCCCGAACACACCCAATTCTCCATTACTATCCATTCCACAAACACTGACTACAATAGAAGTATAAAAATTACTCCACTGCATCATTCACTCAGCTTCCATCTCTCAGACACCAAGCTGCAGATCCAGGTCACTTGTAGGTCACCACCTAGAGGGGAGGAAGACCTCGCTTGGAGAGTGGGAATAAAACGCTCGGAAAAGGGTACACGCTTTCTGGGAAAGTGAAGGCCACCATGCTCTGGAGAAAGTCTCTGTCCGGCTCTGCTTGTGCTGATACTGCTGGTGTGGCTGGCTGGCTCCAGCCTCCCTGGCAAGGAATCCGGCCAAGAAATTCCAGCGGCAGCATATGGAECTCAGACAGTCCCCCAGCAGCAGCTCCACCTACTGTAACCAAATGATGAGGCGCCGGAATATGACACAGGGGCGGTGCAAACCAGTGAACACCTTGTGCACGAGCCCCTGGTAGATGTCCAGAAATGTCTGTTCCAGGAAAAGGTCACCTGCAAGAACGGGCAGGGCAACTGCTACAAGAGCAACTCCAGCATGCACATCACAGACTGCCGCTGACAACGGCTCCAGGTACCCCAACTGTGCATACCGGACCAGGCCGAAGGGAGAGACACATCATTGTGGCTGTGAAGGGAGCCCATATGTGCCAGTCCACTTGTGATGCTCTGTGGAGGACTCTACCTAACGGTCAGAGCAGCGAGATAACCCACCTCCCTAACCTCATCCTCTCCACAGCTGCCTCTCCCTCTCCCTGCTGTGAAAGAAGTAACTAGTTAGGGCTCCTATTCAACACACACATGCTTCCCTTCAGGCCGAATTCA

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FIGURE 369

MALEKSLVRLLLLVLILLVLGVQPSLGKESRAKKFQRQHMDSDSSPSSSTYCNQMMRRRNMTQGRCKPVNTFV
HEPLVDVQNVCFQEKVTCNGQGNCYKSNSSMHITDCRLTNGSRYPNCAYRTSPKERHIIVACEGSPYVPVFDA
SVEDST

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FIGURE 370A

CTTCTCTCCCAGGGCGGTGCGACCCGGAGCTCCAGCGCCCGAGTCTCCACTTCGTTGCTGAAACTGCTTTCTA
 CCAGCTAAGAAC**CATG**TGCGAGTGATTGGAATCTGCCAGCAATATCCCTAAACGAAATTGGCAAGCCGGA
 TCCTATTGTTCTGCATTTAAGGATGAGAAAAGAAAAGAAAGTTGATAATGAATTGAACCTGCTCTG
 GAATGAGATTTGGAGTTGACTTGAGGGGTATACCACTGGACTTTCATCTTCCCTGGGATTATTGTGAAAGA
 TTTGAGACAATTGGACAAATAATTAAATTGGCACGGCAGCTGTAGCCCTGAAGGACCTGACTGGTGACCAGAG
 CAGATCCCTGCCGTACAAGCTGATCTCCCTGCTAAATGAAAAAGGGCAAGATACTGGGCCACCATGACTTGGT
 GATCGGCTATGATCCGCCCTCTGCTCCACATCCAATGACCTGAGCAGGGCCACCGTGCCAGGCATGGGAGGAGA
 TGGGAAGAAGATGAAGGTGATGAAGACAGGTTGACAATGCAGTCAGGGGCCCTGGGCCAAGGGCCAGTTGG
 GACGGTGTGGAAAGCTCAGCTGCTGGAGGTGATTGAGGGCGACAGTTAAGTGTAAACAACATAAGGCCTGTTCAA
 ACAGGACTTCCAGATCCGCGTCCGAGTGATTGAGGGCGACAGTTAAGTGTAAACAACATAAGGCCTGTTCAA
 AGTTCACGTCTGTTGAGACACACCAGAACAGAACATCAAGAGAGGAAACAACCTTTTGATGAGTTGTTTT
 CTACAATGTCAACATGACCCCTCTGAATTGATGGATGAGATCATCAGCATCCGGTTATAATTCTCACTCT
 GCAGGGCAGATTGCTGTGATGGGGAAATTAAAGATTGATGTTGATTGTTATGATGAACTGGCCATGCTGTCT
 GAGAAAGTGGCTTCTCTCAATGACCCGGAAAGATACAGTTCAAGGTTATAAGTCAAGCAGTCAAGCATGTT
 TGTCTGGGAACCGGAGATGAGCCTCCCTGAGAGACGAGATCGTATAATGACAGTGTGAGAGTAA
 TTTGTTACTCCCTGCTGGCATTGCCCTCCGGTGACCTTCTGCTGAAATCTACCGAGCTGAGGACATCCC
 CCAGATGGATGATGCCTCTCACAGACAGTAAAGGAATATTGGAGGCAATGCAAGATAAGAAAATCTGTTGGA
 TCCTTTGTTAGAAGTTCTTGTGGAAAAAAAGGTTGTACAAACATAATTGAGAAAAATGCAAACCCAGAGTG
 GAATCAGGTGTCATCTCAGATCAAGTTCTCAGTGTGAAAAAAATAAAACTAACAAATATGACTGGGA
 CCGCTTACTAAAATGATGTTGAAACAACATATCTACACCTCTAAATGCTGCCTCTGGTGGGAAGT
 GGAAGATTCTCATCTCGGAAACTGGGCTGCATCATACAGTAAACACAGGAGAAACAGAGTAGGCTTGT
 TCCAACGTTGGACCTTGTACCTGAATCTTATGGAAGCCCCAGGGAGTACACGGGATTCCAGCCCTATGA
 TGAGCTGAATACTGGAAAGGGGGAGGGAGTTGCCTACAGAGGAGGATCTGGTGTGAAATTGCCACTTTCTG
 GAAGACACCACCAAGATAAAAGCTTGAGGCCATTCAAATGATGACCTGCTGGTTGAGAAATACCAGCGAAG
 GCGGAAGTACAGCCTGCTGCCGTGTTCAATTGAGCCACCATGTTGCAAGATGTTGGTGAGGCCATTGAGTTGA
 AGTCAGCATTGGGAACTATGCAACAAGTTGACACCACCTGTAAGCCTTGGCATCAACAACACTCAGTACAGCCG
 TGCTGTATTGATGGCAACTACTATTAACTTGCCCTGGGCCACACCAAGCCAGTTGTTACCCCTGACTTCATA
 CTGGGAGGATATTAGTCATGCCCTGGATGCGGTGAAACACTCTCCTAGCTATGGCAGAACGGCTGCAAACAAATAT
 AGAAGCTCTAAATCAGGGATAACAGGAAAATTCTGCAAAACAGCTGGCTGAATTGTTGGTGAAGCTGATAGA
 TGAAGTTAGAAGACACGAGATAACAGTTGCCTCTCACAGAAGGAAAAGCCAACGTCACAGTTCTCGATACTCA
 GATCCGAAAGCTGCGGTCCAGGTCTCTCCCAAATACATGAGGCGGTGAGGATGAGGTGCGAAGCCACAGA
 TGTGAAGTCCACACTGGCAGAAATTGAGGACTGGCTTGATAAAATTAAATGCAAGCTGACTGAAGAGCCACAGAACAG
 CATGCCATCATCTGGATGATCCGGGGAGAGAAGAGACTGGCTATGCAAGAATCCCGCACATCAGGT
 CTTGTACTCCACCAGTGGTGAGAATGCACTGGAAAATACTGTGGAAAACCCAAACCATCTTCTGAAGTATCC
 ACAGGAGAAAACAACGGGCAAAGGTGCTGTGGAGTTGCGAGTGAAACATCTGCTAGGCTTAAGTGTGTTGGA
 GAAGAAGTTAACAGCTCGAGAACAGGAACTTCACCGTCTTGCTGAAATGATGAAATCAAGCTCTATGTT
 TGGAAAATGGGTACTCTGGATTAGTAGGAGCTCATAAGTTCTGATGTCACAGGAAAATAACTCAAGAG
 GGAATTTTCTGCCCTCCAAAAGGCTGGGAATGGGAAGGAGAGTGGATAGTTGATCCTGAAAGAAGCTGCTGAC
 TGAGGCAGATGCAGGTACACGGAGTTCACTGATGAGTCATCAGAACAGAGAGCCGTACCCGGGCGACTG
 GAAGCCGGCCGAGGACACCTACACGGATGCGAACGGCGATAAACGAGCATCACCCAGCGAGTTGACTTGTCTCC
 AGGTGGGAATGGGAAGATGATGCATGGCTTATGACATAATGAGCGGGTGGATGAGAAAGGCTGGGAATATGG
 AATCACCATTCTCCTGATCATAGCCAAATCTGGGTTGCAGCAGAGAAAATGTACCAACTCATAGACGGCG
 AAGGCTGGTCCGAAAACGCAAGAAAGATTTAACACAGACTGCTCAAGCACCAGGGCCATGGAGGAATTGCA
 AGACCAAGAGGGCTGGGAATATGCTTCTCTAATTGGCTGGAAATTCACTGGAAACACAGTAGTTGACATACCT
 CCGCCGCAAGACGCTGGAGGAGAAAATGGCTCCTCAGAAACACATGGTGCAGCTGCCATCTTAAACTGAAGG
 TGCCCTTGGGCAGACACTACCGAAGATGGGATGAGAAGAGCCTGGAGAAACAGAACAGCACAGTGCCACCAACTGT
 GTTCGGAGCAAACACCCCTTGTGCAATTGACAGAGTCTACATCTACCATCTGCGCTGCTATGTCTA
 TCAAGCCAGAAACCTTGTGGCTTAGATAAGGATAGCTTCAAGATCCATATGCTCATATCTGTTCCATCG

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FIGURE 370B

GAGCAAAACCACTGAGATCATCCATTCAACCCCTGAATCCCACGTGGGACCAAACAATTATTCGATGAAGTTGA
AATCTATGGGGAACCCAAACAGTTCTACAGAATCCACCCAAAGTTATCATGGAACTTTTGACAATGACCAAGT
GGGCAAAGATGAATTAGGACGAAGCATTCTCCTGTGGTGAACACTGAACCTGAGAAATGGACATCACACC
CAAACCTCTCTGGCACCCAGTAATGAATGGAGACAAAGCCTGCAGGGATGTTCTGTAACTGCAGAGCTGATTCT
GAGGGGCAAGGATGGCTCAACCTCCATTCTCCCCCTCAAAGGGCGCAAATCTATACATGGTCCCCCAGGG
GATCAGGCCCTGTGGTCCAGCTCACTGCCATTGAGATTCTAGCTGGGCTTAAGAAATATGAAAACCTCCAGAT
GGCTTCTATCACATCCCCCAGTCTGTTGAGGGAGAAAGGGTGAATGGTGTGATCAAAACCT
TAAGAAGACACCCAACTTCCAAGTTCTCTTCAATGAAAGTGTCTTGCCTCAAGGAGGAATTGTACATGCC
CCCACGGTGTCAAGGTATCGACCAAGGCAGTTGGGCGGAAGCCTGTCGCGCCAGTGCACCATCGAGCG
CCTGGACCGCTTCGCTGTGACCCATTGCAAGGGAAAGAGGACATCGTCCCACAGCTCAAAGCCTCCCTGTGTC
TGCCCCACCATGCCGGACATCGTTATCGAAATGGAAGACACCAACCATTACTGGCTCTAAGCTGACAGAAAA
GGAGGAAGAAATCGGGACTGGGAGTAAATTATGCTTCTCAGGGGAACATGAAAATGCGGACAGTATAT
TCAGAAAGGCTATTCCAAGCTCAAGATATAATTGTGAACTAGAAAATGTAGCAGAATTGAGGGCTGACAGA
CTTCTCAGATACTGTTCAAGTTGACCGAGGCAAGTCGGATGAAAATGAAGATCCTCTGTGGTGGAGAGTTAA
GGGCTCCCTCGGATCTACCTCTGCCGGATGACCCAGCGTGCCAGCCCCCTCCAGACAGTTGGAAATTACC
TGACAGCGTCCCACAGGAATGCACGGTAGGATTACATTGTTGAGGCTTAGAGCTCCAGCCCCAGGACAACAA
TGGCCTGTTGACCCATTACAAAAAAACACTGGGCAAAAAGTCATTGAAGACCGAGATCACTACATTCCAA
CACTCTCAACCCAGTCTTGGCAGGATGTACGAACCTGACTTACCTCAAGAAAAGACCTGAAAATTTC
TGTCTATGATTATGACACCTTACCCGGATGAAAAGTAGGAGAAACAATTATTGATCTGGAAAACCGATTCCCT
TTCCCGCTTGGTCCCCTGCGCATACAGAGGAGTACTGTGTTCTGGAGTCATACTGGCAGATCAACT
GAGACCAACACAGCTGCTTCAAAATGTCGCCAGATTCAAAGGCTCCACAACCCATCTTCCGAAGATGGAG
TAGAATCAGATATGGAGGACGAGACTACAGCTTGGATGAATTGAAGCCAACAAATCTGCACCAGCACCTCGG
GGCCCTGAAGAGCGGCTTGTCTCACATCCTCAGGACTCAGGGCTGGTCCCTGAGCACGTGGAAACAAGGAC
TTTGCACAGCACCTCCAGCCAACATTCCAGGGAAAACCTCAGATGTGGTGGATTTCCCAAGAGTT
GGGGCCACCAGGCCCTCTTCAACATCACACCCCCGGAAAGCCAAGAAATACTACCTGCGTGTGATCATCTGGAA
CACCAAGGACGTTATCTGGACGAGAAAGCATCACAGGAGAGGAATGAGTGACATCTACGTCAGGCTGGAT
TCCTGGCAATGAAGAAAACAAACAGAAAACAGATGTCCATTACAGATCTTGGATGGTAAGGAAATTAACTG
GCGATTGTTCCCGTTGACTACCTCCAGCCAACAACTCTGTATCGTTGCCAAAAAGAGCATTCTGGAG
TATTGACCAAACGGAATTGCAATCCCACCCAGGTGATCATTGAGATATGGGACAATGACAAGTTCTCTGGA
TGACTACTGGGTTCTAGAACCTGACTTGCGTCACAGCATCTGCAAAATCACCAGAGAAATGCAGGTT
GGACATGATTCCGGACCTCAAAGCCATGAACCCCTTAAAGCCAAGACAGCCTCCCTTTGAGCAGAAGTCAT
GAAAGGATGGTGGCATGCTACGAGAGAAAGATGGCGCCCGCGTAATGGCTGGAAAGTGGAGATGACATTGGA
AATCCTCAACGAGAAGGAGGCCAGGAGGGCCAGCCGGAAAGGGCGGGACGAACCCAAACATGAACCCAAAGCT
GGACTTACCAAATCGACCAGAAACCTCTCTGTTCAACCAACCCATGCAAGACCATGAAGTTCATCGTGTG
GCGCCGCTTAAAGTGGGTATCATCGGCTGCTGTTCTGCTTATCCTGCTCTCGTGGCGTGCCTCTA
CTCTTGGCGAACTATTGTCATGAAGATTGTAAGCCAATGTGTAACAAAGGCAAAGGCTCATTCAAGAG
TCATCCAGCAATGAGAGAACCTGCCCTGTAGACCAACATCCAGTGTGATTGTCAGGACACACCCAG
TAGCAGGTTACGCCATGTCACCGAGCCCCATTGATTCCCAGAGGGCTTAGTCCTGGAAAGTCAGGCAACAAAGC
AACGTTGCAATGTTATCTTAAAGTATTAAAGTTATTCTAAAGTTAAATCATGTTTCAAAATAT
TTTCAAGGTGGCTGGTCCATTAAAGATCTTCTGTTATGTGTCCTGGTTAGACTCAGCTTGGAA
ATTGCTAAATAGAATTCAAACATCTGCACTGAGGTGATATACTTCATATTGTAATCAACTGAAAGAGCTG
TGCATTATAAAATCAGTTAGAATAGTTAGAACAATTCTTATTGCCCCACAACCAATTGCTATTTGTATGGA
TGTCAAAAGTCTATTACCTCTGTAATGAAACTAAATAAAATGTTCACCTTAAAAAAAAAAAAAAA
AAAA

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FIGURE 371

MLRVIVESASNIPKTGFKPDPIVSVIFKDEKKKKVVDNELNPVWNEILEFDLRLGIPLDFSSSLGIIVKDFETI
GQNKLIGTATVALKDGTQDQRSLPYKLISLLNEKGQDTGATIDLVIGYDPPSAPHNDLSPGSVPGMGGDGEED
EGDEDRLDNAVRGPGPKGPGVGTSEAQLARRLTKVKNSSRMLSNKPQDFQIRVRVIEGRQLSGNNIRPVVKVHVC
GQTHRTRIKRGNNPFFDELFYVNVMTPSELMDEIISIRVYNSHSLRADCLMGEFKIDVGFYDEPGHAVMRKWL
LLNDPEDTSSGSKGYMKVSMFVLGTGDEPPPERRDRDNDSDDVESENLLPAGIALRWVTFLKLYRAEDIPOQMD
AFSQTVKEFGGNADKKNLVDPFVEVSAGKKVCTNIEKNANPEWNQVNVNLQIKFPSVCEKIKLTIYDWDRLTK
NDVVGTTYLHLSKIAASGGEVEDFSSSGTGAASYTVNTGETEVGFVPTFGPCYLNLYGSPREYTGFDPYDELNT
GKGEGVAYGRGRILVELATFLEKTPDKLEPISNNDLLVVEKYQRRRKYSLSAVFSATMLQDVGEAIQFEVSIG
NYGNKFDTCKPLASTTQYSRAVFDGNYYYYLPWAHTKPVVTLTSYWEISHRLDAVNTLLAMAERLQTNIEALK
SGIQGKIPANQALAEWLKLIDEVIEDTRYTLPLTEGKANVTVLDQTIRKLRSRSLSQIHEAAVRMRSEATDVKST
LAEIEDWLDKLMQLTEEPQNSMPDIIWIMIRGEKRLAYARIPAHQVLYSTSGENASGKYGKQTIFLKYPQEKN
NGPKVPELRVNIWGLSAVEKKFNSFAEGTFTVFAEMYENQALMFKGWGTSGLVGRHKFSDTGKIKLKREFFL
PPKGWEWEGEWIWDPERSLLTEADAGHTEFTDEVYQNESRYPGGDWKPAEDTYTDANGDKAASPSELTCPGWEW
EDDAWSYDINRAVDEKGWEYGITIPPDHKPKSWAAEKMYHTHRRRRLVRKRKKDLTQASSTARAMEELQDQEG
WEYASLIGWKFHWKQRSSDTFRRRRWRKMAPSETHGAAAIFKLEGALGADTTEDGDEKSLEKQKHSATTVFGAN
TPIVSCNFDRVYIYHLRCVYQARNLLALDKDSFSDPYAHICFLHRSKTTEIHSTLNPTWDQTIIIFDEVEIYGE
PQTVLQNPPKVIMELFDNDQVGKDEFGLRSIFSPVVKLNSEMDITPKLLWHPVMNGDKACGDVLVTAELLRLGKD
GSNLPILPPQRAPNLYMVPQGIRPVVQLTAIEILAWGLRNMKNFQMASITSPLSVVECGGERVESVVIKNLKKTP
NFPSSVLFMVFLPKEELYMPPLVIKVIDHRQFGRKPVGQCTIERLDRFRCDPYAGKEDIVPQLKASLLSAPPC
RDIVIEMEDTKPLLASKLTEKEEEIVDWWSKFYASSGEHEKCGQYIQKGYSKLKIYNCELENVAEFEGLTDFTSDT
FKLYRGKSDENEDPSVVGEGFKGSFRIYPLPDDPSVPAPPRQFRELPSVPQECTVRIYIVRGLELQPQDNNGLCD
PYIKITLGKKVIEDRDHYIPNTLNPFGRMYELSCYLPQEKLKISVYDYDTFTRDEKVGETIIDLENRFLSRFG
SHCGIPEEYCVSGVNTWRDQLRPTQLLQVARFKGFPQPILSEDGSIRYGRDYSLSDEFEANKILHQHLGAPEE
RLALHILRTQGLVPEHVETRTLHSTFQPNISQGKLQMWDVFPKSLGPPGPPFNITPRKAKYYLRVIWNTKDV
ILDEKSITGEEMSIDIYVKGWIPGNEENQKTDVHYRSLDGEGNFNWRFVFVFDYLPAEQLCIVAKKEHFWSIDQT
EFRIPPRLLIQIWNDKFSLDDYLGFIELDLRTIIIPAKSPEKCRLDMPDLKAMNPLKAKTASLFEQKSMKGWW
PCYAEKD GARVMAGK VEMTLEI LNEKA D E R PAG KGR DEP NMNP KLD LPN

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FIGURE 372

GGGCTGCGCTGTCCAGCTGTGGCTATGGCCCCAGCCCCGAGATGAGGAGGGAGAGAACTAGGGGCCGCAGGCCT
GGGAATTTCGTCCCCCACCAAGTCCGGATGCTCACTCAAAGTCTCAGCAGGCCCTGAGGGAGGGAGCTGTCA
GCCAGGGAAAACCGAGAACACCACCATCACCAATGACAACCAGTCACCAGCCTCAGGACAGATAAAAGCTGTCTGGCT
TATCTTCTTCATGCTGGCTGGGAACGCTGCTCCCCTGGAAATTTTCACTGACGGCCACTCAGTATTTCACAAA
CCGCCTGGACATGTCCCAGAATGTGCTTGGTCACTGCTGAACGTGAGCAAGGACGCCAGCGTCAGCCGCC
TGCAGCACCCCTGGCTGAGCGGAACTCCTCAGTGCATCTCAACAATGTATGACCCCTATGTGCCATGCTGCC
CCTGCTGTTATTACCTACCTCAACTCCTCCTGCATCAGAGGATCCCCCAGTCCGTACGGATCCTGGCAGCCT
GGTGGCCATCCTGCTGGTGTCTGATCACTGCCATCCTGGTAAGGTGCAGCTGGATGCTCTGCCCTCTTTGT
CATCACCATGATCAAGATGTGCTATTAATTCAATTGGTGCCATCCTGCAGGGCAGCCTGTTGGCTGGCTGG
CCTTCTGCCTGCCAGCTACACGGCCCCATCATGAGTGGCCAGGGCCTAGCAGGCTCTTGCCTCCGTGGCCT
GATCTGCGTATTGCCAGTGGCTGGAACTATCAGAAAGTGCCTCGCTACTTATCACAGCCTGTGCTGTTAT
CATTTGACCATCATGTTACCTGGGCTGCCCTGGAAATTCTACCGCTACTACCAGCAGCTCAAGCTTGA
AGGACCCGGGGAGCAGGAGACCAAGTGGACCTCATTAGCAAAGGAGAGGAGCCAAGAGCAGGCAAAGAGGAATC
TGGAGTTTCAGTCACACTCTAGCCACCAATGAAAGCCACTCTATCAAAGCCATCCTGAAAAAATATCTCAGT
CCTGGCTTCTCTGCTCATCTTCACTATCACCATTGGGATGTTCCAGCCGTGACTGTTGAGGTCAAGTC
CAGCAGTCAGGCAGCACCTGGGAACGTTACTTCATTCCCTGTGCTCTGTTCTGACTTCAATATCTTGA
CTGGTTGGGCCGGAGCCTCACAGCTGATTATGTCAGCTGCTGGCTGGCTGCCAGCCTGGTCT
GGCCCGGCTGGTGTGTTGTGCCACTGCTGCTGTGCAACATTAAGCCCCGCCGTACCTGACTGTGGCTTCTGA
GCACGATGCCCTGGTCATCTTCACTGGCTGCCCTTGCCTCTCCAAACGGCTACCTGCCAGCCTGCTGATGTG
CTTCGGGCCAAGAAAGTGAAGCCAGCTGAGGCAGAGACCGCAGGAGCCATCATGGCCTTCTCTGCTGCTGG
TCTGGCACTGGGGCTGTTCTCCTCTGTTCCGGCAATTGTGTGACAAAAGGATGGACAGAAGGACTGCC
CCTCCCTCCCTGCTGCCCTCTGCCCTTCTGCTGCCAGGGGTGATCTGAGTGGCTGGCGTTTTCTTCT
AACTGACTTCTGCTTCCACGGCGTGTGCTGGGCCGGATCTCAGGGCCCTGGGAGGGAGCCTCTGGACGGACA
GTGGGGACATTGGGGTTGGGCTCAGAGTCGAGGGACGGGGTGTAGCCTGGCATTGCTTGAGTTCTCCAC
TCTTGGCTCTGACTGATCCCTGCTTGTGCAAGGCCAGTGGAGGCTTGGCTTGGAGAACACGTGTGCTCTGTG
TATGTGCTGTGCTGCTGCCGTGCTGCAACTGCTGCCCTGGCTAGGAGCTGGCT
CGTTGTATGGTTGACCTGATAACTCATTCTCCCTGCCCTCTCTGTTTTCCATGTCCCCCTCC
CAACTCCCCATGCCAGTTTACCCATCATGCACCCGTACAGTTGCCACGTTACTGCCCTTTAAAATATA
TTTGACAGAAACCAGGTGCCTTCAGAGGCTCTGATTAAATAACCTTCTGTTTTTT

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FIGURE 373

MTTSHOPQDRYKAVWLIFMLGLGTLLPWNNFFMTATQYFTNRLDMSONVSLVTAELSKDAQASAAPAAPLPERNS
LSAIFNNVMTLCAMPLLLLFTYLNSFLHQRIQPQSVRILGSIVAILLVFLITAILVKVQLDALPFFVITMIKIVLI
NSFGAILQGSLFGLAGLLPASYTAPIMSGQGLAGFFASVAMICAIASGSELESAFGYFITACAVIILTIICYLG
LPRLEFYRYYQQLKLEGPGEQETKLDLISKGEEPRAGKEESGVSVSNQPTNESHSIKAILKNISVLAFSVCFIF
TITIGMFPAVTVEVKSSIAGSSTWERYFIPVSCFLTNIFDWLGRSLTAVFMWPGKDSRWLPSLVLARLVFVPLL
LLCNIKPRRYLTVVFEHDAWFIFFMAAFASNGYLASLCMCFGPKVKPAEAETAGAIMAFFLCLGLALGAVFSF
LFRAIV

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FIGURE 374

CCTGGGCCGCGGGCTGGATGAGCCGGGAGCTCCCTGCTGCCGGTCATAACCACAGCCTCATCTGCCCTGGG
 GCCAGGACTGCTGCTGACTGCCATCCATTGGAGCCCAGCACCCCCCTCCCCGCCATCTCGGACAGCAACTC
 CAGCCCAGCCCCGCGTCCCTGTGTCACCTCTCCTGACCCCTGGCCACCCAGAAGGCTGGAGCAGGGACG
 CGTCGCTCCGGCCGCTGCTCCCTGGTCCCCGTGCGAGCCCACGCCGGCCCCGGTCCCCGCCAGCCCT
 GCCACTGGACACAGGATAAGGCCAGGCACAGGGCCCCACGTGGACAGCATA**TGGACC**GGCACGCTCCCTCTGG
 CTGTTGCCCTGCTGCTGGCCAGCTGCAGCCTCAGCCCCACAAGTCTGAGAAACAGTCCATTGTGACCTTCAGC
 CTGTGGGCCCGAGAGGGGGCAGGTGACATATACCACTAGCCAGGTCTGAAGGGCTGCGTGGCTCAGGCC
 ATGCCATCCTGAAGTCCATGCTCTTCCCTGGAGTTCCAACGGGCCGTACAGCTGGAGCTGACTCTCAGG
 CATCCAAGCAAATGGCACCTGGCCCCAGAGGTGCTTCTGGTCCACTGTAAACAGCAGTGTCTCAGTCC
 TCCAGGCCCTGGGAATCCCAC TGCACTGGCCTACAATTCCAGCCTGGTCACCTTCCAAGAGCCCCGGGGTCA
 ACACCACAGAGCTGCCATCCTCCCCAAGACCCAGATCCTTGAGTGGGCAGCTGAGAGGGGCCATCACCTCTG
 CTGCTGAGCTGAATGACCCCCAGAGCATCCTCCCGACTGGGCAAGGCCAGGGTCACTGTCCTCTGCATGC
 TGGAAAGCCAGCCAGGACATGGGCCGACGCTCGAGTGGCGGCCGCTACTCCAGCCTTGGTCCGGGGCTGCCACT
 TGGAAAGGCGTGGCCGGCCAAGGAGGCGCACATCTGAGGGTCTGGCCGGCCACTCGGCCGGGGCCGGACGG
 TGACGGTGAAGGTGGAACTGAGCTGCCACCCGGGATCTGATGCCGCTCATCTGCAGGGTCCCCCTACG
 TGTCTGGCTCATCGACCCAACCACAACATGCAGATCTGACCCTGGAGAATACTCCTCAAGATCTTCCAG
 AGAAAAAACATTCTGTGGCTCAAGCTCCAGACACACCTCAAGGCCTCTGGGGGAGGCCGATGCTCAATGCCA
 GCATTGTGGCATCTCTGTGGAGCTACCGCTGGCCAGCATGGTCTCACTCATGCCCTCAGCTGCCGGTGGTAGGC
 TGCAGACCTCACCCGACCGATCCAGACCACTCTCCCAAGGACACTTGTAGCCGGAGCTGCTCATGTCCTGA
 TCCAGACAAAGTGTGCCGACGCCATGACCTGGTACTAAAGAAAGAGCTTGTGCGATTGAAGTGCACCA
 TCACGGGCTGACCTCTGGACCCAGCTGTGAGGCAGAGGACAGGGTACAAGTTGTCTGCGAGTGCCT
 ACTCCAGCTGTGGCATGCAGGTGTCAGCAAGTATGATCAGCAATGAGGCCGGTGGCAATATCCTGTGAGCTCAT
 CACACAGCGAAAAGGTGACTGCCTCAACATGGACAGCCTCTTCCAGCTGGCCCTACCTCAGCCCAC
 ACTTCCCTCCAGGCCCTCAACACCATCGAGCCGGGGCAGCAGAGCTTGTGAGGTCAAGAGTGTCCCCATCCGTCT
 CCGAGTCTCTGCTCCAGTTAGACAGCTGCCACCTGGACTGGGCTGAGGGAGGCACCGTGGAACTCATCCAGG
 GCCGGCGCCAAGGGCAACTGTGTAGCCTGCTGTCCCCAAGCCCCGAGGGTGACCGCGCTTCAGCTTCC
 TCCACTTCTACACAGTACCCATACCAAAACCGGCACCCCTAGCTGCACGGTAGCCCTGCGCTCAAGACCGGGT
 CTCAAGACCAAGGAAGTCCATAGGACTGTCTCATGCGTTGAACATCATCAGCCCTGACCTGTCTGGTGCACAA
 GCAAAGGCCTGCTGCCCGCGTGTGGCATCACTTGGTGCCTCCATCGGGCCCTGCTACTGCTG
 CACTCTGGTACATCTACTCGCACACGCCGTGAGTACCCAGGCCACAGT**TGAG**CATGCCGGCCCTCCATCCA
 CCCGGGGAGCCAGTGAAGCCTCTGAGGGATTGAGGGCCCTGGCAGGACCCGACCTCCGGCCCTGGGGCG
 TCCCGCTCCCAGGTTCCCCAGCAAGCGGGAGCCCGTGGTGGCGGTGGCTGCCCGGCCCTCTGGAGAGCAGCA
 GCACCAACCACAGCATGGAGCACCCAGAGCACCCCTGCTCCACAGCAGCATGGCATAGCCCCGGGGGGCG
 CGCTGCCAGCAGGAGAGACTGAGCAGCCGCCAGCTGGAGCAGTGGTGTGAACCTACCCCTGGAGGCCAGTCT
 CCACTCGACCCAGAATGGAGCCTGCTCCCGCCTACCCCTCCGCCCTCTCAGAGGCCGTGCTGCCAGTGC
 AGCCACTGGCTTGGAACACCTGGGTCCTCCACCCACAGAACCTCAACCCAGTGGGTCTGGGATATGGCTG
 CCCAGGAGACAGACCACTTGCCACGCTGTTGTAAGAACAGATTAGGCCAGCCAGGCCAGGCCAACAGCAC
 TGAACAGCTGGCAGGAAGGGAGAACCTGAAACAGATTAGGCCAGCCAGGCCAACAGCAC
 TGAACAGCTGGCAGGAAGGGAGAACAGGCCACCTGGATCTATCCCTGCGGCCCTCCACACCTGAAC
 TAACGGCAGGGAGACAGGAGCCTAGCGGAGGCCAGGCCAGGGAGGCCAACAGGGTGGCAAGAACAGTGG
 GGAGCCTAGCTCCTGCCACATGGAGCCCCCTCTGCCGGTGGCAGCCAGCAGAGGGGGAGTAGCCAAGCTGCTT
 GTCTGGGCTGCCCTGTGATTACCAACATGAGACCATGAAACCTGAAAAAAAAAAAAAA

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FIGURE 375

MDRGTLPLAVALLLASCSLSPTSLAETVHCDLQPVGPERGEVTYTTSQVSKGCVAQAPNAILEVHVLFILEFPTGP
SQLELTIQASKQNGTWPREVLLVLSVNNSVFLHLQALGIPLHLAYNSSLVTFQEPPGVNTTELPSPKTQILEWA
AERGPITSAAELNDPQSILLRLGQAQGSLSFCMLEASQDMGRTLEWRPRTPALVRGCHLEGVAGHK
EAHILRVLP
GHSAGPRTVTVKVELSCAPGDLDAVLILQGPPYVSWLIDANHNMQIWTTGEYSFKIFPEKNIRGFKL
PDTPQGLL
GEARMLNASIVASFVELPLASIVSLHASSCGGRLOTSPAPIQTPPKDTCSPELLMSLIQTKCADDAMTLVLKKE
LVAHLKCTITGLTFWDPSCAEADRGDKFVLRSA
YSSCGMQVSASMISNEAVVNILSSSSPQRKKVHCLNMDSLSF
QLGLYLSPHFLQASNTIEPGQQSFVQVRVSPSVSEFLLQLDSCHLDLGPEGGTVELIQGRAAKGN
CVSLLSPSPE
GDPRFSFLLHFYTVPIPKTGTL
SCTVALRPKTGSQDQE
VHRTVFMRLNIISPDL
SGCTS
KGVLPAVLGITFGAF
LIGALLTAALWYIYSHREYPRPPQ

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FIGURE 376

TCGGAGGAGCCAGCGAAATCCTGCCGCTGCCGGACGAGGAGGAGGAGGAAGAGGGGATGGAGCAGGGG
CTGGAGGAGGAAGAAGAGGTGGATCCCCGATCCAGGGAGAACACTGGAGAACGTTAAATCAGTCCACGGATGATATC
AACAGACGGGAGACTGAACTTGAGGATGCTCGTCAGAAGTTCCGCTCTGTTCTGGTTGAAGCAACGGTCAAAGTGC
GATGAACCTGGTGAAGAAATTGGCAAAGCTGTGGAAGACTCCAAGCCCTACTGGGAGGCACGGAGGGTGGCGAGG
CAGGCTCAGCTGGAAGCTCAGAAAGCCACGCAGGACTTCCAGAGGCCACAGAGGTGCTCCGTGCCCAAGGAG
ACCATCTCCCTGGCGAGCAGCGGCTGCTGGAGGATGACAAGCGGAGTCGACTCCGCTGGCAGGAGATGCTG
AATCACGCCACTCAGAGGTCACTGGAGGCGAGCAGACCAAGACCAGGGAGCAGCTGGTGCATAAGGAGACGGCA
GCCAGGTACAATGCCGCATGGGCCATGCGACAGCTGGAGAACAAACTCAAGAGAGCCATCAACAAGTCCAAG
CCTTATTTGAACCAAGGCAAAGTACTATGTGCAGCTCGAGCAACTGAAAAAGACTGTGGATGACCTGCAGGCC
AAACTGACCCCTGGCAAAGGCAGTACAAGATGCCCTGAAGAACCTGGAGGATGATCTCAGATGAGATCCACGAG
CGCGGGCGCTCCAGTGCATGGGCCTCGGGGATGCGGTGTTGGTGCAGGGCAGCACATCTGGAGGAT
CTGCCAGGGAGCAAACCTGAGCCTGATGCCATTCTGTGGCCTCGGAGGCCCTTGAAGATGACAGCTGTAGCAAC
TTTGTGCTGAAGATGACTCGAACCCAGTCCGTGTCAGCTTAGTCAGGACCAACAAGCCGCTGAGATG
CCTGACCAAGTCCCTGCGGTGAGGCCCTGGCAGCCTGGATCTGCCAGCCCTGTGTCAGAGTTGGG
ATGATTTCCCAGTGTGGGCCCTCGAAGTGAATGCAGCGGGGCTCCTCCCCCTGAATGTGAAGTAGAACGAGGA
GACAGGGCAGAAGGGGCAGAGAATAAACAAAGTGAACAAAGCCAACAACACCAGGGCCTCAGCAGTAGCAGTGGC
AGTGGTGGCAGCAGTAAGGCCAAAGCAGCACCTCCCTGAGGGCAGGCCCTGGAGAACCGGATGAAGCAGCTC
TCCCTACAGTGTCAAAGGGAGAGATGGAATTATTGTCGACATAAAATGGTGCAGATTGGTGATTCATCCTG
GCCCTGGCGATGTGCATATCAACATTATACATGGAACACTGGAGAACATTGTGCCAATAATCATTTAATATATG
CCAAATCTTACACGTCTACTCTAAACTGCTCTAAAGTTCACTGAGCTTCAAGGCTAAAGATTGTCTTCTG
GGTAAGAGCTTGGCTGGTTTCAGAGCAGAGTTCTGTTGGTAGACTGTGACTAGGTTCACAGCCTT
GTGGAACATTCCGTATAACGGCATTGTGAAGCAATAACTAGTTCTATGAAAGAACAGAGCTGGAGATGGC
TGGGAAGCCAGGCCAAAGTGGGGCAACAGCTGCTCTCTCTCACCCCTCAGTTGTATGGAAAATG
GAGATGTCCTCTCCACTTATCCCACGATATCTAAAGAAAAAGAAAGAAAACCACACACAAAGCAAAACTCA
AGTATTAAAGAGCACATATTTGACCCAGTGGAGGCTAAAAAAAAAAATCCAAGAACACAATTCAATTTCAC
CACCTCTGGTGTTCAGAGGGGCTTTAAAAAAGCGTGTATGCTGGGATACCCATTAAACCATTTCTAGAAGG
CTACCATGAGCTGCACTTTGGGTGGAAAGGTGAATGCCAGTGGGATGCGGGGGATGAGGGTAGGAGGGA
CTTATAGAAGGGATTGTGGCTGTGGGGAGAACGGTTCTACAGCATAAGCCTTATCTGCCAGCCAAGGGGATT
TATTCTAAGAGAAGTGCATGTGAAGAACGGTGCACACTGTTATTAGATTGACAAGATGTTAATTCTCTGTAGGT
TGTAACCTTAAATAATGAAATTATTAAGGGTATGCTGCACTAGTATTCTTAGAGGAAACAGTCTTTAA
AGTTAGGAAAGGGAGTAGGCAGGCATGTGGCAAAGGCTGTTAATAGTAGTTAAGTGTAAAGACTGCTTTCT
TTAACGTTTCTGGTAAATGCATATTAGAGCACTGTTATTGTCTGTTAAGAAAATTAGCATTCTAAAAG
AAAAAGCAACCCCTTTCAAACGTAAATTCTGTCACAGCCTGTATATTAGTCATTGAAATCTCTTCA
CAATAGTGAATTCTTTGACTGATACTGATCTTAAATTACAAGGTTATTGTACTGTCTTAATACACTAAG
TGTAATAAAACGGCTTGAG

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FIGURE 377

MEQGLEEEEVDPRIQGELEKLNQSTDDINRRETELEDAROKFRSVLVEATVKLDLVKKIGKAVEDSKPYWEAR
RVARQAQLEAQKATQDFQRATEVLRAAKETISLAEQRLLLEDKRQFDQSAWQEMLNHATQRVMEAEQTCTRSELVH
KETAARYNAAMGRMRQLEKKLKRAINNSKPYFELKAKYYVQLEQLKKTVDLQAKLTLAKGEYKMALKNLEMISD
EIHERRSSAMGPRCGVGAEGSSTSVEDLPGSKPEPDAISVASEAFEDDSCSNFVSEDDSETQSVSSESSGPTS
PSEMPDQFPAPVVRPGSLDLPSPVSLSEFGMMFPVLGPRSEC GAS SPECEVERGDRAEGAENKTSdkANNRGLS
SSSGSGGSSKSQSSTSPEGQALENRMKQLSLQCSKGRDGIIADIKMVQIG

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FIGURE 378

GACGCCATCCCTGTGACCATGACGATGTCCTCATCGTGTGAAGGCAGAGAGCAGAGACATCCCGATCTGGGGAA
ACTCTGATCCAGTATATACGGCCTGTTGTCAGACGGAAAGTGGCCACAGATAATGATTTCCAGAAGGAACCTGTACAAACAGG
ATCAAGAGACGGCGCAGTCAAACGGAAAGTGGCCACAGATAATGATTTCCAGAAGGAACCTGTACAAACAGG
ACCTGCTTAATTACCTCAACCTGGTGCATTCATCCCTGGAGCGCCCGTCCAGCCTGTGTTTACGATATCCA
AATAAACTGGACACCACATGGACGTGGCAAGGACCTGGAGCGCTGGAAATCCTGTGGCTCACGCTGTGTCAG
TTTCACAACCAAGTGGAAATCGAGTTCCTCTGTGTACAGCCCTCTGTGAGGAGGAGAAGAGGAACCCCGCGCTG
TATGCCAGCAACGTGGCGAGTCATGGCCGAGGCCTTGGGTGTCTCGTGACTGACTACACGTTGAGGACTGC
CAGCTGGCCCTGGCGGAAGGACAGCTCGTCTCCCCTGACACTTGCTTTAGAATTGCCAGGCTCGTGC
GGCCTCGGGCTAAAACCAGAAAAGCTGAAAAAGATCTGGACAGATACTCAGAAAGAGCCAGGATGAAGGGAGGA
GAGAAGATAGGTATTGCCGGAGTTGCCGCTCCCTGGAAGTCCCCGTTCTGACTTGCTGAAAGACATGTTTCA
CTGTTGACGAGAGCGGCAGCGGAGGTGGACCTGCGAGAGTGTGTTGCTGCTGCGTCTGCCGGCC
GCCCGGACCTGGACACCATCCAGCTGGCTTCAAGATGTACGGAGCGCAAGAGGACGGCAGCGTGGCGAAGGT
GACCTGTCCTGCATCCTCAAGACGCCCTGGGGGTGGCAGAGCTCACCGTGAACGACCTATTCCGAGCCATTGAC
CAAGAGGAGAAGGGAGATCACATTGCTGACTTCCACAGGTTGAGAAATGACCCCTGCCCTCCAGAGGAA
TACCTGTACCCGGATCAGACACATTGAAAGCTGTGAGAGACCTCACCTGCCCAATCCAAACGGCTCTGT
GCCGATTTCAGCCCGAAAACTCAGACGCTGGCGGAAGCCTGTCAGAAGCTGGATTAGACCCAGGGTTG
CGGAGAGACGCCCTCCCGTGGACATCACCGCATGAGCCTTTGAGTGAACCTCTGGCTCCGCTCC
TCACCTGCTGACAGGCACTGTCAGCCCGAGTTCCAGGGGCTCGGGGCTGTTGTATCTTGTCTT
GTGAAGTGTGTTGCAAGACCGACGCTACTGTGCGAGAATCGGAGGGCGCACCGGATCCCCCGCTGGCTG
GACCCCGTGGGGTCAGGTTCCCTGCCGGCGGGGGCACCCGTGCCGCCCCGTGTTCTCCACGGGGCTGGTT
TCGAGTCTCTGTACAGCCTCTCCGGCGCAGCGTGCACCGGGCGGGCTCCGTGACACTCAGCACACGCC
CCACACAGCGTGCCTGCGTCACTCTGGCACGAAACCTGTCGCTGTTGATCCACAGCCTGGCAGAGCC
GAGCCGTACCTGATTTTCACTGTTTACCTGTGAGGCTATGAGTATTTATAAAACTCCATTAGGT
ACTTCAGGAAACATGCAGCATTAAAAATGAAAATTGTTTCACTTCATTTCCTTTAGAGTC
GATATTATTTATAGGCCTTTTTTTAATATAGAATCTGAGGCTGTTGGCTTGA
GGCCTCTCCAGCAGGTAATCCCTCCCTCCGCTGGGCTCCCTGGGGAGGTGAACTCAAGGCC
AAACACTTTCTGCTTTCTTAATCCTTCCAGTCCCTCTTTTATAAACGTTGGCAGTTGATGTT
TGTTTGGCATAACGTAATCCATTCACTGTAGCCTAAACTCCAGTCCAGGTTGGATATTGTTCA
GGCCCGAGCTGGAAAGCGCAAGGCAGCCCGCCGTGCCGCTCCCTGCCCTCAGGCCAGGCTCGTGGAA
GCCGCTGCATCTCTGTCAAGCCCTGGTTCCATGGTGACTGGCGTCACGCGAGC
CCTGCAGAGAGAGGCCAGTCTTGTGGAAGGAGACGCTGGCTGCGGTGGAGGGTGTGAGG
ATGTCGGTGACAGCGTGGACACCACCTCTGCACTGCGACTGCCCTCCAGGCCAGGGTGC
CCACTGAGAGCGGGGCTCTGCCCATCTAGAGTC
GGTGTACCTGAAGTCCCTGTACATCACCTGTTCATATT
GCACAAATAATCATCACAGACTGAGTTGCTTCTAAAGCAAAGGCTCGGGTTGTTGGAAA
TTCTGAAATGAATTGATTTATATTGGGGCATCTATAGAAAGTGA
AAATGTTACTAACCTCTCAGAGATTGTA
TCCGTTCAATCAATCACCTGACTGTTTACGATGGACACTGCCAGCAGGACAGACAGGGATGGAGTAAAC
CGAAGTCAATTCAAGGGCTCTGGCTTGGACACAGAAGAAATCCTAGTGCAGCCTTGGTAGCTAACAGTC
TGATTTATAATTGGAGAATGCGTA
AAATAAACTAAGATATTCCGAGGGAAACGGACCCAGGCCACCTCCCTCCGAGGTCTG
GAATGAAATGCCACTGTGCATTTCAGAAAAAAATCTGATAAACAGACTTGA
TGATTCTCTTCTCTGCGACTTAGAGTTGGCG
AACCCCTGTGTGAGACAGGACGCCAGCGAGCGGGCCCTGGTGGCTGGGGCCAGACCCGTGGCAGGTGGGC
GGGCCCTGGCCTGCCAGGGACCTGCTGGGGTGTGAGGGCAGAGGGAGGTG
ATGGAATAAGTAAACATAAAAGTCTACTTGGAAAA
AAAAAAAAAAAAAAAAAAAAAA

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FIGURE 379

MAEALGVSVTDYTFEDCQLALAEGQLRLPADTCLEFARLVRGLGLKPEKLEKLDTRYSERARMKGGEKIGIAEF
AASLEVVPVSDLLEDMFSLFDESGSGEVDLRECVVALSVVCRPARTLDTIQLAFKMYGAQEDGSVGEGDILSCLIKT
ALGVAELTVTDLFRAIDQEEKGKITFADFHRFAEMYPAFAEEYLYPDQTHFESCAETSPAPIPNGFCADFSPE
DAGRKPVRKKLD

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FIGURE 380

GGCACGAGGCCGGATCCACCGTGCCTCTGGGCCCTGCGTCCCCGGAGTCCCCGCCTGTGTCGTCTCTGTCGCCGT
 CCCCCTCCTGCCAGGCGCGAGCCCTGCGAGCCGCGGGTGGGCCCAAGGCGCCAGACATGGCCTGCC
 AAAGCGCGCTGGCTGCCGGCGCTGGCGTGCAGGGCTACTGTGCGCTGTGCTGGCGCTGTATGATCGTG
 ATGGTGCGTCGCTCATCAAGCAGCAGGTCTTAAGAACGTCGCACTGACCCAGTAGCCTGTCCTAACATG
 TGGAAAGGAGATCCCTATCCCCTATCTCCGTACTTCTTGACGTCACTGAACCCCAGCGAGATCTGAAG
 GGCGAGAAGCCGCAGGTGCGGGAGCGCGGGCCCTACGTGTACAGGGAGTTCAAGGCACAAAAGCAACATCACCTC
 AACACAACGACACCCTGTCCTCCTCGAGTACCGCACCTCCAGTCCAGGCCCTCCAAGTCCCACGGCTCGGAG
 AGCGACTACATCGTCATGCCAACATCTGGTCTGGGTGCGCGGTGATGATGAGAATAAGCCCAGTACCCCTG
 AAGCTCATCATGACCTTGGCATTCAACCACCTCGCGAACGTGCTTCATGAACCGCACTGTGGGTGAGATCATG
 TGGGGCTACAAGGACCCCTGTGAATCTCATCAACAAGTACTTCCAGGCATGTTCCCTCAAGGACAAGTTC
 GGATTATTGCTGAGCTAACAACTCCGACTCTGGCTCTCACGGTTCACGGGGTCCAGAACATCAGCAGG
 ATCCACCTCGTGGACAAGTGGAACGGGCTGAGCAAGGGTCACTTCTGGCATTCCGATCAGTGAACATGATCAAT
 GGAACCTCTGGGCAAATGTGGCCGCCCTCATGACTCCTGAGTCCTCGCTGGAGTTCTACAGCCCAGGGCCTGC
 CGATCCATGAAGCTAATGTACAAGGAGTCAGGGGTGTTGAAGGCATCCCCACCTATCGCTCGTGGCTCCAAA
 ACCCTGTTGCCAACGGGTCATCTACCCACCCAAAGGCTCTGCCGTGCCCTGGAGTCTGGAATTCAAGAAC
 GTCAGCACCTGCAGGTTCACTGCCCTGTTCTCTCCCATCCTCACTCCCTAACGCCGACCCGGTCTGGCA
 GAAGCGGTGACTGCCCTGACCCCTAACCAAGGAGGCACACTCCTGTTCTGGACATCCACCCGGTCACGGGAATC
 CCCATGAACTGCTCTGTGAAACTGCAGCTGAGCCTCTACATGAAATCTGTCGCAAGGCATTGGACAAACTGGGAAG
 ATTGAGCCTGTGGCTCTGCCGTGCTCTGGTTGAGAGAGCGGGGCCATGGAGGGGAGACTCTTCACACATT
 TACACTCAGCTGGTGTGATGCCAACGGTGTGACTATGCCAGTACGTCTCTGGCGTGGCTGGCTGGCTCTG
 CTGCTGGTCCCTGTCACTGCCAACATCCGGAGCCAAGTAGGTGCTGGCAGAGGGCAGCCGGCTGACAGCCAT
 TCGCTTGCCTGCTGGGGAAAGGGGCCAGATCGGACCCCTCTGCCAACCGCAGCCTGGAGGCCACCTCCAGCA
 GCAGTCTCGCTCTGCCGGAGTGGAGCGGTCACTGCTGGGGCTGCGCAGCACGCTTGCCTGGCTTTGATGC
 CGCGTTGCCACTACTCTGCTGTTCTGGAAGGCCCTGGACCCCTCCCTGGAGGGGACAGGGTCTGAGGACAC
 CGTGAGGCCAGCCAGGCTGGCGCTGGCCTGACCGGCCCCCAGGCCCTACACCCGCTTCTCCGGACTCTCC
 CAGCGGACAGCCCCCAGCCCCACAGCCTGAGCCTCCAGCTGCCATGTCCTGTCACACCTGCACACACGCC
 CTGGCACACATACACACATGCGTGCAGGTTGTCAGACACTCAGGGATGGAGCTGCTGTCAGGGACTTGTAG
 GGAGAGGCTGTCACAAGCAACTGTTCTGGAACCTCTCCACGTGGCCCACAGGCCAGGCTGACCCAGGGCTGTG
 GTGCTGCGTCCCCCTCCTGGGTGAGCCTGCCGTGCTCCGTTGCCAGGCTTGGGCCAGGCTTCCCTCCCTCAA
 GGTGAAACACTGCGACTCCGGTGTGGTGGCTCCCATGCAAGGAGGGCCAGGCTGGAGTGGCGCTTCTGTG
 CAAATTCACTGGGACTCAGTGCCAGGCCCTGGCCACGAGCTTGGCCTGGCTACCTGCCAGGCCAGGCAA
 GCGCCTTACACAGGCCCGAAACATGGAGTGGAGCACAAGATGCCCTGTGCACTGCCAGGGCTCCGCC
 CACCCGGCCGGACTTGTACCCCCCGAAGTCTCACAGGCACGTCATGGGTTGTCTGGGCCCTTCTCTCCA
 GCCTAAACTGACATCATCCTATGGACTGAGCCGCCACTCTGGCCGAAGTGGCCGAGGCTGTGCCCCCGAGC
 TGCCCCCACCCCTCACAGGGCCCTCAGATTATAGGTGCCAGGCTGAGGTGAAGAGGCCCTGGGGCCCTGCCT
 TCCGGCGCTCTGGACCCCTGGGGCAAACCTGTGACCCCTTCTACTGGAATAGAAATGAGTTTATCATTTG
 AAAAATAATTCACTCTGAAGTAATAAACGTTAAAAAAAAAAAAAA

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FIGURE 381

MGCSAKARWAAGALGVAGLLCAVLGAVMIVMVPSLIKQOVLKNVRIDPSSLNFNMWKEIPIPFYLSVYFFDVMNP
SEILKGEKPQVRERGPVYREFRHKSNITFNNNDTVSLEYRTFQFQPSKSHGSESDYIVMPNILVLGAAVMMEN
KPMTLKLIMTLAFTTLGERAFMNRTVGEIMWGYKDPLVNLINKYFPGMFPFKDKFGLFAELNNSDGLFTVFTGV
QNISRIHLVDKWNGLSKVDFWHSDQCNCMINGTSGQMWPFFMTPESSLEFYSPEACRSMKLMYKESGVFEGIPTYR
FVAPKTLFANGSIYPPNEGFCPCLESQIQNVSTCRFSAPLFLSHPHFLNADPVLAEVTLHPTQLVLPKVMHYAQYVLLA
PVTGIPMNCCSVKLQLSLYMKSAGIGQTGKIEPVVLPLLWFAESGAMEGETLHTFYTQLVLPKVMHYAQYVLLA
LGCVLLLPVICQIRSQVGAGQRAARADSHSLACWGKGASRTLWPTAAWSPPPAAVLRLCRSGSGHCWGLRSTL
ASFACRVATTLPVLEGGLGPSLGGGTGS

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FIGURE 382

AGTCAAGATGGAGGAGTACGCGCGAGAGCCTGCCATGGCGAATTGTGGATGACTGTGGTGGGCCTTACGATGGTACCATGGTGGTGGTATCTTCAGCAATCAAAGGTTTCGCAATTCTCCAGTGGGAGTAAACCACAGACTACGAGGGAGTTGACAGCTATTAAAACCAGGGCTCCACAGTTAGGAGGTAGCTTGCAGTTGGGAGGGCTGTTTCCATGATTGACTGTAGTATGGTTCAAGTCAGAGGAAGGAAGATCCCTGGAACCTCCATACAAGTGGTGCCTTAACGGGAGCCATACTGGCAGCAAGAAATGGACCAGTGGCCATGGTGGTCAGCCGCAATGGTGGCATTCTCCTAGCTTAATTGAAGGGAGCTGGTATCTTGTGACAAGATTGCCTCTGCACAGTTCCAATGGTCTCAGTTGCAGAAGACCCCTCCCAGTTGCCTCAACTCAGTTACCTTCACCTTGGAGACTATCGACAATATCAGAGGACTTCTTCCTAGGATTCTTAACAGAACGAGTTGTGGTCAGAAGGATTTCAGAAGATCAAGTTACAGTCTGTTTAAAACCATAAGTGGGACAGCTATGCCAATAGGCTATAAGAGACATTGCACTTTCTATTAAAGGACAAGCAGGGGAAGGGTGCTAAAAGATAATACTTATTACACTTGAATTGCATTGTGATCAAATAAAAGTTAAATCGCTAAAGGAAATACAGTAAGTGCCTGAAAGATGAAGGACCAAAAGGCCAAAAACAGTGAAATA TGATCATCATCTCTGCGGACTCTCTGCCTGGTTTGTGTTCTGTTATTCAAACAATAAAAGCTGGTGGAACTTACTCTTCTTTAAGATAAGTTGAGACTTCGATGTTCATGCTCATGTACTTCAAATAATGCATGTTTATAGTTAGTCAGACTGAGTCACATGGATCATTTCACAGTGAGATGCTTATGGATTGAAGGGATATGGTAAATGTTATAGTTACTTGAAGGATAAAATATACTATGTCTGGTTTGAGGATATTGGATACAAACTCTCTCCTTAGGGCTACTGAGTCITGATTCTGATCATCAGAAATTCAACCAGAAACACTGCTTCCAATATACCAATTCTATATGAAGAATTGAGACTGGGACTGGAAGAGTTAGTGTCTTGATGCTTGAATGTGTTCCAAGTCCTCTGCATAAACGATGTATTGGGGCTGGTTGGGCCTGGAAAATGGATGAGCACTTCAGAACAGGTCAATTCTGATATTGGAAGTGACATGTGGCCCTATAGGAGGCATGATGTTAGTTAATTACACATTGCCTACATCTGTGGAAATGGAGAACAAAGCCATGTGGGTACTGTAAACACAGTTATCTTGGCCAATGCCATACATATGGTAGGCATTAATTACTGATTGTGTTGGATAATTGGGAATTTCGACTGTGGTAAATATACTAAATACTTATTAAAAAAAAAAAAAA

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FIGURE 383

MEEYAREPCPWIVDDCGGAFMGTIGGGIFQAIKGFRNSPVGVNHLRGLTAIKTRAPQLGGSFAVWGGLFSM
IDCSMVQVRGKEDPWNSITSGALTGAILAARNGPVAMVGSAAAGGILLALIEGAGILLTRFASAQFPNGPQFAED
PSQLPSTQLPSSPFGDYRQYQ

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FIGURE 384

ATGGCGACGGAGCAGAGGCCTTCCACCTGGTGGTTCGGCGCGTCTGGCTTCACCGGCCAGTCGTGACCGAG
GAGGTGGCCGGGAGCAGGTGGACCCGGAGCGGACCCAGCCTGCCCTGGCGTGGCGGGCCGCTCCGGAGAAG
CTGCAGCGGGTCTGGAGAAGGCGGCCCTGAAGCTGGAAAGACCAACACTGTCATCTGAAGTTGGAATCATCATC
TGTGATATTGCTAATCCAGCCTCGCTTGATGAAATGGCTAACACAGGCAACAGTTGTCCTCAATTGCGTAGGACCA
TATCGGTTTATGGAGAACCTGTAATAAAAGCATGTATTGAAAATGGAGCCAGTTGTATCGACATCAGTGGAGAA
CCTCAGTTCTGGAACTAATGCAACTGAAGTATCATGAGAAAGCTGCAGACAAAGGGGTTATATCATTGGAAGC
AGCGGCTTGACTCCATTCCAGCAGATCTGGGAGTAATATATACAGAAATAAAATGAATGGTACTTGTACTGCT
GTGGAAAGTTCTGACTATACATTAGGACCTGAGGGTTGAGCATTCATGATGGTACCTGGAAAGTCAGCAATT
TATGGTTTGAGATCAGAGTAATTGAGAAAACAAGAAATGTATCAAATCTGAAACCTGTCCCCTCATGGT
CCAAAATTGAAGAGAAGGTGCCAATTCTTATTGCGGAACTCAAAGGTATTCCATTCTTATGGGATCT
GATGTGCTGTTGTAAGGAGGACTCACGTTACTGTATGAAAATTAGAGGAATCACCAGTCAGTATGCTGCG
TATGTAACTGTGGGAGGCATCACCTCTGTTATTAGCTGATGTTGCAGGACTTTCTTGTCTTGAGG
TTTGGAAATTGGAAGGCACACTCTCATAAAATTCCATGGTCTTCTCCTTGGCTATTTCAAAACAAGGCCA
ACACAAAAACAGATTGATGCTGCCCTATTACGCTGACATTCTTGGTCAAGGATACAGCCAAGGCACGGTACA
GATAAGAACAAACAAATATCAAATTGACTCAGGTGAAAGGACAGAGGCTGGCTATGTCACCCCCATA
GCTATGGTCAGGCAGCCATGACTCTCTAAGTGATGCTCTCATCTGCCTAAGGCCGGCGGGCTTCACACCT
GGAGCAGCTTTCCAAAACAAAGTTGATTGACAGACTCAACAAACACGGTATTGAGTTAGTGTATTAGCAGC
TCTGAAGTCTAAACACTGGAGAAATTAAACTGAAGTCATAACGTGCGTAATTACAGCTCTATTTGATATT
GAAATTCTCTGTAAGCCTGCTGAGTGTATGGAAACGATTGTCAAATCTAAAATATCTATATATTTAAAAGT
AGGAAATTGTCCTAGCTTACCTAAATTCAAATCTGAGTTGATTTGTGATTTATTGCTTATAACAGAGAACT
CATATTGACATATTTTCTATTGATGTTCTGGTAGATTTCAAGAATGAGCTGGCAGGTCTAATGGGGA
GGCGCGTCCCAGTCTGTGTCAGCAGCATTCTCATGGGGGTGCGCACACCACGTTACTGTCGGCAGTAAC
TGCCGCTTGCCTGCCGAGTAGGAGGAAATCTCACCTCCTCACATACTGCTTGGACTGTTACCTAAGTTGAAA
AACTGCACTTTGCTGTTTGCCTAGTTTGCCTAACACTACACTGATTTGGACTGTTACCTAAGTTGAAA
ATAAAAGGTTGTCATGAATGGTGGTTAATGTTGGACCTGCCGATGTATTGTATAGTGGTAGAAACATGCTGC
TTAAGTGGCTAACCTGTTCTGCCAATAAGTAGGCTTATCATTATTTACGTAATTCTATATCTGTGACT
AGGTTTTAAGGATACAGCTTATAAGTGTCTATCAATTCAACTACCTAACGAGAAATTCTCTAATTACTTT
TTGTATTAACTAGGTTACATGGAAGGCCAAAATAAGGAAAGACTTTCTTTGTAATAAGCATATAA
TAAACACGTATATACATAGCAAATTGA

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FIGURE 385

MATEQRPFHVVFGASGFTGQFVTEEVAREQVDPERTQPALGVAGRSREKLQRVLEKAALKLGRPTLSSEVGIII
CDIANPASLDEMAKQATVVLCVGPYRFYGEPIVKACIENGASCIDISGEPOFELMQLKYHEKAADKGVYIIGS
SGFDSIPADLGVIYTRNKMNGTLTAVESFLTIHSGPEGLSIHDTWKSAYGFDQSNLRKLRNVSNLKPVPLIG
PKLKRRWPISYCRELKGYSPFMGSDSVVRRTQRYLYENLEESPVQYAAYVTGGITSVIKLMFAGLFFLFFVR
FGIGRQILLIKFPWFFSFGYFSKQGPTQKQIDAASFTLTFFGQGYSQGTGTDKNKPNIKICTQVKGPEAGYVATPI
AMVQAAMTLLSDASHLPKAGGVFTPAAFSKTKLIDRLNKHGIEFSVISSSEV

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FIGURE 386

CTCAAAACCGCCTGCTAAAATACCCGACTGGAGGGAGCATAAAAGCGCAGCCGAGCCCAGCGCCCCGCACCTTT
CTGAGCAGACGTCCAGAGCAGAGTCAGCCAGCATGACCGAGCGCCGCGTCCCTTCGCTCTGCGGGGGCCCCA
GCTGGGACCCCTTCCCGACTGGTACCCGATAGCCGCTTTCGACCAGGCCTCGGGCTGCCCGGCTGCCGG
AGGAGTGGTCGAGTGGTAGGCAGCAGCTGGCCAGGCTACGTGCGCCCCCTGCCCGCCATCGAGA
GCCCGCAGTGGCCCGCCCTACAGCCGCGCCTCAGCCGGCAACTCAGCAGCGGGTCTGGAGATCCGGC
ACACTGCGGACCGCTGGCGGTGCCCCGGATGTCAACCACCTCGCCCCGGACGAGCTGACGGTCAAGACCAAGG
ATGGCGTGGTGGAGATCACCGGAAGCACGAGGAGCGGAGGACGAGCATGGCTACATCTCCGGTGCTTCACGC
GGAAATACACGCTGCCCCCGGTGTGGACCCCACCCAAAGTTCCCTCCCTGTCCCCCTGAGGGCACACTGACCG
TGGAGGCCCCATGCCAAGCTAGCCACGCAGTCCAACGAGATCACCACCCAGTCACCTCGAGTCGGGGCCC
AGCTTGGGGGCCAGAAGCTGCAAATCCGATGAGACTGCCGCAAGTAAAGCCTAGCCTGGATGCCACCCCT
GCTGCCGCCACTGGCTGTGCCTCCCCGCCACCTGTGTTTTGATACTTATCTCTGTTTCTCAAAT
AAAGTTCAAAGCAACCACCTGTAAAAAAAAAAAAAA

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FIGURE 387

MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAAPAYSRA
ALSRQLSSGVSEIRHTADRWRVSLDVNHFAPDELTVKTKDGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDP
TQVSSSLSPEGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK

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FIGURE 388

ACTGCGACTCGAGACAGCGCCCGGCAGGACAGCCTCCAGAATGAAAATGCGGTTCTGGGGTTGGGGTCTGTT
GGTCTCTGGCCCCCTGCATTCTGAGGGCTGGAGGGAAACTGACAGCTGTGGATCCTGAAACAAACATGAATGT
GAGTGAAATTATCTCTTACTGGGGATTCCCTAGTGAGGAATACTAGTTGAGACAGAAGATGGATATATTCTGTG
CCTTAACCGAATTCCATGGGAGGAAGAACATTCTGACAAAGGTCCAAACCAGTTGCTTCCTGCAACATGG
CTTGCTGGCAGATTCTAGTACTGGGTACAAACCTGCCAACAGCAGCCTGGCTCATTCTGCTGATGCTGG
TTTGACGTGTGGATGGCAACAGCAGAGGAATACTGGCTCGGAAACATAAGACACTCTCAGTTCTCAGGA
TGAATTCTGGGCTTTCAGTTATGATGAGATGGAAAATATGACCTACCAGCTTCATTAACCTCATCTGAATAA
AACTGGCCAAGAACAGTGTATTATGGGTCATTCTCAAGGCACCACATAGGTTTATAGCATTTCACAGAT
CCCTGAGCTGGCTAAAGGATTAAATGTTTGCCTGGCTGTGGCTTCGCTGCCTCTGACTAGCCC
TATGGCCAATTAGGACGATTACAGATCATCTCATTAAGGACTTATTGGAGACAAAGAATTCTTCCCCAGAG
TGCCTTGAAGTGGCTGGTACCCACGTTGCACTCATGTCATACTGAAGGAGCTGTGGAAATCTCTGTT
TCTTCTGTGGATTAATGAGAGAAATTAAATATGCTAGAGTGGATGTATACAACACATTCTCTGCTGG
AACTTCTGTGCAAAACATGTTACACTGGAGCCAGGCTTAAATTCCAAAAGTTCAAGCCTTGACTGGGAAG
CAGTGCCAAGAATTATTCATTACAACCAGAGTATCCTCCCACATACAATGTAAGGACATGCTGTGCCGAC
TGCAGTCTGGAGCGGGGTACGACTGGCTGAGATGTCTACGACGTCAATATCTACTGACTCAGATCACCAA
CTTGGTGTCCATGAGAGCATTCCGGAATGGGAGCATTTGACTTCATTGGGGCTGGATGCCCTTGGAGGCT
TTATAATAAAATTATTAATCTAATGAGGAATATCAGTGAAAGCTGGACTTGAGCTGTACCAAGTCAATG
ATTATGTCATGTGAAATGTGTTGCTCATTCTGAAACACTTGTGTTTCTTCCCAGGTCTTGTGTTT
TATATCCAAGAAAATGATAACTTGAAGATGCCAGTTCACTCTAGTTCAATTAGAAACATACTAGCTATT
TCTTAAATTAGGGCTGGAATAGGAAGCCAGTGTCTCAACCAGTATTGCTCTTAAGTCTTAAATATCACT
GATGTGAAAAAGGTCTTATCCATTCTGTTTAAATTAAATATATTGACTTTGCCCTCATAGGAC
AAAGTAATATATGTGTTGAAATTAAATTGTTGTCATGGTAAATCTGCACTGACTTAAGCGAGGTATAA
AAAGTACGCAGTTTCATGTCCTGCCTAAAGAGCTCTAGTCTAACGGCTTGAGTAGAGATCTAAATGAC
ATTTATCATGTTCCGTGAGGTGCAAGTCAATCCAGAAATATCACAGCTGTGCCAGTAATAAGGATGC
TAACAATTAAATTATCAAACCTAAGTGTGACAGCTGTGATTGACACGTTAATTGCTCAGGTTAAATGAAAT
AGTTTCCGGCTTCAAAACAAATGCACTGATAAAACAAAACAAAAGTATGTTTAAATGCTTGAAGAC
TGATACACTCAACCCTATATTGAGCTCTCAATTGAGCTTCATGGCAGGCCATAGTTCACTATCTGAGAAGCAA
ATCCCTGTGGAGACTATACCACTATTGAGCTTGTGAGATTAATGACTCTGGAGCCGCTACTGCGTTATTGATC
ACATCTGTGTGAAGCCAAAGCCCGTGGTGCCTGAGAAGTGTCTTGCATTTCACCCAAATGAAGTGTG
AACGTGATGTTCCGGATGCAAACCTCAGCTCAGGGATTCTTGTCTTAGTTTATATGCACTCCTTATT
AATACACCTGCTCACGTCCCTATGTTGGAGTCCATATTGCTGCTTCTGAGCATCATTCCCTACAA
TACTGTCGGTGGACAAATGACAATTGATATGTTCTGATATAATTACTTAGCTGCACTAACAGTACAATG
CTTGTAAATGGTAATATAGGCAGGGGAATACTACTTTGTAACCTTAAAGTCTAAACTTCAATAAAATTG
AGTGAGACTTATAGGCC

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FIGURE 389

MKMRFLGLVVCLVLWPLHSEGGKLTAVDPETNMNVSEIIISYWGFPSEEYLVETEDGYILCLNRIPHGRKNHSD
KGPKPVVFLQHGLLADSSNWVTNLANS SLGFILADAGFDVWMGNSRGNTWSRKHKTLSVSQDEFWAFSYDEMAKY
DLPASINFILNKTGQEQQVYYVGHSQGTIGFIAFSQIPELAKRIKMFFALGPVASVAFCTSPMAKLGRLPDHLIK
DLFGDKEFLPQSAFLKWLGT HVCTHVILKELCGNLCFLLCGFNERNLNMSRVDVYTTHSPAGTSVQNMLHWSQAV
KFQKFQAFDWGSSAKNYFHYNQSYPPTYNVKDMLVPTAVWSGGHDWLADVVDVNILLTQITNLVFHESIPEWEHL
DFIWGLDAPWRLYNKIINLMRKYQ

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FIGURE 390

CGCAGGCTGGAAGGAAGACGAACCTACGAAGCAGAGATCTGAAGACAGCATGTACACAGCCATTCCCCAGAGTGG
CTCTCCATTCCCAGGCTCAGTGCAGGATCCAGGCCTGCATGTGTGGCGGGTGGAGAAGACTGAAGCCGGTGCCTGT
GGCGCAAGAGAACCAAGGGCGTCTCTCTCGGGGACTCCTACCTAGTGCACAATGGCCAGAAGAGGTTTC
CCATCTGCACCTGTGGATAGGCCAGCAGTCATCCCAGGATGAGCAGGGGCCTGTGCCGTGGCTGTGCACCT
CAACACGCTGCTGGAGAGCAGCAGTCAGTCACAGGAGGTGGTGTGGAGTCAGCATTCAAGACCTCCACAGGAGCCCCAGC
TGCCATCAAGAAACTCTACCAGGTGAAGGGGAAGAAGAACATCCGTGCCACCGAGCGGGCAGTGAACGGGACAG
CTTCAACACTGGGACTGCTTCATCCTGGACCTGGGCCAGAACATCTTGCCTGGTGTGGAAAGTCCAACAT
CCTGGAACGCAACAAGCGAGGGACCTGGCCATCGGGACAGTGAGCAGGGCAAGGCCAGGTGGA
GATTGTCACTGATGGGAGGGAGCCTGCTGAGATGATCCAGGTCTGGCCCCAAGCCTGCTGAAGGAGGGCAA
CCCTGAGGAAGACCTCACAGCTGACAAGGCAAATGCCAGGGCAGCTCTGTATAAGGTCTGTGATGCCACTGG
ACAGATGAACCTGACCAAGGTGGCTGACTCCAGCCCCTTGCCCTGAUTGCTGATATCTGATGACTGCTTTGT
GCTGGACAACGGGCTCTGGCAAGATCTATATCTGGAAGGGCGAAAAGCGAATGAGAAGGAGCAGGCAGGCAGC
CCTGCAGGTGGCCAGGGCTTCATCTCGCGCATGCAGTACGCCCGAACACTCAGGTGGAGATTCTGCCCTAGGG
CCGTGAGAGTCCCCTTCAAGCAATTTCAGGACTGGAAATGAGGGTGGCGTCTCCCTGCCCTGCTCAAT
CTGCCCTCCACCACCTGCCTGCTTCTGGCTGCCTGGTCAGTGCAGAGGTGCCCTGCAGATGTTCAAT
AAAGGAGACAAGTGTCTTCCC

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FIGURE 391

MYTAIPQSGSPFPGSVQDPGLHVWRVEKLKPVPVAQENQGVFFSGDSYLVLHNGPEEVSHLHLWIGQQSSRDEQG
ACAVLAVHLNTLLGERPVQHREVQGNESDLFMSYFPRGLKYQEGGVESAFHKTSTGAPAAIKKLYQVKGKKNIRA
TERALNWDSFNTGDCFILDLGQNIFAWCGGKSNIERNKARDLALAIRDSERQGKAQVEIVTDGEPAEMIQVLG
PKPALKEGNPEEDILTADKANAQAAALYKVSDATGQMNLTKVADSSPFALELLISDDCFVLDNGLCGKIYIWKGKRK
ANEKERQAALQVAEGFISRMQYAPNTQVEILPQGRESPIFKQFFKDWK

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FIGURE 392

CCGGTCTGAGACACGCTGTTGGCTGAAAAGTGAAGGCAAGAGCTCATTGGCCTCTGTGCTCCCCTCCGCAAG
 GGATCGTTCTCAGAAGAGCTGGATATTCTTCGCCAGTTATGGCAGACAAGTAAACGAGAATTGCTATTGTC
 AACCATGACAAATGTAACCTAACGAAATGTCGACAGGAATGCAAAAGAGTTGCTCTGTAGTCGAATGGGAAA
 TTATGCATAGAGGTTACACCCCAGAGCAAAATAGCATGGATTCCGAAACTCTTGTATTGGTTGTTGATCTGT
 ATTAAGAAATGCCCTTGCGCCTTCAATTGTCATCTACCAAGCAACTTGAAAAAGAAACCACACATCGA
 TATTGTCCAATGCCCTCAAACCTCACAGGTTGCCTATCCCTCGCCAGGTGAAGTTGGGATTAGTTGGAAC
 AATGGTATTGAAAGTCAGCTGCTTAAAATTAGCAGGAAAACAAAGCCAAACCTGGAAAGTACGAÍGAT
 CCTCTGACTGGCAGGAGATTGACTTATTCCTGGATCTGAATTACAAAATTACTTACAAAGATTCTAGAA
 GATGACCTAAAGCCATCATCAAACCTCAATATGTAGCCAGATTCTAAGGCTGGCAAAGGGGACAGTGGGATCT
 ATTTGGACCGAAAAGATGAAACAAAGACACAGGCAATTGTATGTCAGCAGCTGATTTAACCCACCTAAAGAA
 CGAAATGTTGAAGATCTTCAGGAGGAGTTGCAGAGATTGCTTGCTGCTGTTGCATACAGAAAGCTGAT
 ATTTCATGTTGATGAGCCTCTAGTTACCTAGATGTCAGCAGCCTTAAAGGCTGCTATTACTATACGATCT
 CTAATAATCCAGATAGATATATCATTGTTGGAACATGATCTAAGTGTATTAGACTATCTCCGACTTCATC
 TGCTGTTATATGGTGTACCAAGCCTATGGAGTTGTCACTATGCCTTAGTGTAAAGAGAAGGCATAAACATT
 TTTTGGATGGCTATGTTCAAACAGAAAACCTGAGATTCAAGAGATGCACTTGTGTTAAAGTGGCTGAGACA
 GCAAATGAAGAAGAAGTTAAAAGATGTTATGTTAAATATCCAGGAATGAAGAAAAAAATGGGAGAATTGAG
 CTAGCAATTGAGCTGGAGAGTTACAGATTCTGAAATTATGGTGTGCTGGGGAAAATGGAACGGGTAACAG
 ACATTATCAGAATGCTGCTGGAAGACTTAAACCTGATGAAGGAGGAGAAGTACCACTGTTCAATGTCAGTTAT
 AAGCCACAGAAAATTAGTCCAAATCAACTGGAAGTGTTCGCCAGTTACTACATGAAAAGATAAGAGATGCTTAT
 ACTCACCCACAATTGACCGATGTAATGAAGCCTCTGCAAATTGAAAACATCATTGATCAAGAGGTGCAGACA
 TTATCTGGTGGTGAACTACAGCAGTACGTTACGCCCTTGCTGGCAAACCTGCTGATGTCATTAAATTGAT
 GAACCACATGCAATTGGATTCTGAGCAAAGACTGATGGCAGCTCGAGTTGTCAAACGTTCAACTCCATGCA
 AAAAGACAGCCTTGTGGAACATGACTTCATCATGGCCACCTATAGCGGATCGCGTCATCGTTTGAT
 GGTGTTCCATCTAAGAACACAGTTGCAAACAGTCTCAAACCTTTGGCTGGCATGAATAAAATTGTCAG
 CTTGAAATTACATTCAAGAAGAGATCCAACAACTATAGGCCACGAATAAACAAACTTAAATTCAATTAGGATGTA
 GAACAAAAGAAGAGTGGAAACTACTTTCTGGATGATTAGACTGACTCTGAGAATTGATAAGCCATTATT
 AAAAGGAGTATTACTAGAATTGGTGTATATAAAACTGAACTCAGGATTGATGCTGAAACACCAACTCTGGAAC
 TGAAGTATAATATACTTAATATAACATAAAAGCCAGTTGGGTCTAAATTGAGTTGAAACACAGAAAATGCCA
 CTTTCTGTTCTGAAGAGGCCTTTGTGCATAATATTCTAAATGAAGACATTCAAGCTATACAAATTACT
 CCAAGTTTCATGATGTTGGAAGATTTCAGTAGGTGTATTATATTACGGTACCAATGCTGACCAGTGTG
 CTCCATTAAATCTGAAAAGGTTCTGTACTTACCTGGTTGCCAGTATGCCAGTGTAAATGAAACTGCC
 CTTATTAAAGCCAGTCAAAGATTCACTGATGACATTGATAAAACATCAGGATTATGTTATTGTT
 GTTTCACTGTTGCACTATATTACAGTATATGGTTCCGAGGAAGATTCTACTGCAAAACACCAACTGTTG
 AAAAATAGTATTAAATTGTTAACTCCTTTGGTGTCTAAACATGTTAAGCAAAACCAATTCA
 TCCATTCCCGAAAAACCCCTAACTTACTCTGAACCTTTGTTGCTTCAATTGAGGTTCTGTATTCA
 GTCATTCTCTAGGTAATGTCATTGGTACACATATATTATATACTGATTGAGATTAGGAAAAAGCATT
 TCTAAAGAATATTGCTCCCTTAGAACTACAGACTCGAAATCTTAAAGATGGTGCCTAACGATCTATGTATT
 TTTTAAGTCCACAGATTCTGTTGGCAGGCCAGGATTATAACCACTCCCTAAAGGCAACATTAATGC
 AAAAGTCCCCAGATGGAATACAAAGTATCCCCTGGTACCACTATATTCAATTGAGTTGGATATAGAGCAC
 ATTATCTAAACCAATTGAGTTGACTTCAAAACCCATCTAAATTCTGAGTTCTGACTTAAAGTGAACAGGATTACCT
 GGAGCCTGGAGGCCACTTAAAGTGTACTCTGACTAAACTGGAATTATGAGTGAGGAAGAGTGTACTAAATAA
 ATGACTGGGGCAAGCAAATTGAGGAGGAAATTAGAAACTGTTGACAAACTTAAAGAGCTACTTGAACAAACAG
 AAGTCTGATTAAATATGCAAATAATGGCTAGAAAGTATGGTTAAGTGGACCTATTATGCTTTAAAATAAT
 TTCAGTAACCCATAAAATACATGTTGAAAAATTCAAATATACAGAATGGAATAAAAATGATCTCCCTTATT
 ACCCTCCAAAGGTTACCAGCGTTGAATTAAATATGTATATTCTTCATGCTTTCTGTGCACTTACCTAA
 GTGTGAATATGTAAGGGTTGTTGTATACAAATGGGATTATACTAAAATAAGTAATGCTATTGTTATTACTGATCCTG
 AGGTTAAATTGTAATGATGATATTCAAATATATTGAATAAAATAAGCAAAGCTATTGTTATTACTGATCCTG
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 393

MADKLTRIAIVNHDCKPKCRQECKSCPVVRMGKLCIEVTPQSKIAWISETLCIGCGICIKKCPFGALSIVNL
PSNLEKETTHRYCANAFKLHRLPIP RPGEVLGLVGTNGIGKSAALKILAGKQKPNLGKYDDPPDWQEILTYFRGS
ELQNYFTKILEDDLKAI IKPQYVARFLRLAKGTVGSI LDRKDETKTQATVCQQLDLTHLKERNVEDLSGGELQRF
ACAVVICIQKADIFMFDEPSSYLDVKQRLKAAITIRSLINPDRIIVVEHDLSDLSDFI CCLYGVP SAYGVVT
MPFSVREGINIFLDGYVPTENLRFRDASLVFKVAETANE EEVKKMCMYKPGMKKMGEFELAIVAGEFTDSEIM
VMLGENGTGKTT FIRMLAGRLKPDEGG EVPVLNVSYKPQKISPKSTGSVRQLLHEKIRDAYTHPQFVTDMKPLQ
IENIIDQEVQTL SGELQRVRLRLCLGKPADVYLIDEPSAYLDSEQRLMAARVVKR FILHAKKTA FVVEHDFIMA
TYLADRVIVFDGVPSKNTVANS PQTLLAGMNKF LSQL EITFRRDPNNYRPRINKLNSIKDVEQKKSGNYFFLDD

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FIGURE 394

AGAGCGATCATGTCGCACAAACAAATTACTATTCGGACAAATCGACGACGAGGGAGTTGAGTATCGACATGTC
ATGCTGCCAAGGACATAGCCAAGCTGGTCCCTAAAACCCATCTGATGTCTGAATCTGAATGGAGGAATCTTGGC
GTTCAAGCAGAGTCAGGGATGGGTCCATTATGATCCATGAACCAGAACCTCACATCTGCTGTTCCGGCGCCCA
CTACCCAAGAACCAAAGAATGAAGCTGGCAAGCTACTTTCAGCCTCAAGCTTACACAGCTGTCCCTACTTC
CTAACATCTTCTGATAACATTATTATGTTGCCTTCTTGTGTTCTCACTTGATATTAAAAGATGTTCAATACAC
TGTTGAAATGTGCTGGTAAGCTGCTTGTTCTTGAGTAGAGCCACCACCATAGCCCAGCCAGATGAGTGCTC
TGTGGACCCACAGCCTAAGCTGAGTGTGACCCCAGAACGCCACGATGTGCTCTGTATCCAGAACACACTTGGCAGA
TGGAGGAAGCATTGAGTTGAGACCATGGCTGTACAGGGATCATGTAAACTTGCTGTTTGTTCTGCC
GGGTGTTGTATGTGTTGACTTGCAGGATTATGTTCAAGTGTACTGGAAACTTCCATTATTCAAGAAATCT
GTTCATGTTAAAGCCTTGATTAAAGAGGAAGTTTTATAAT

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FIGURE 395

MSHKQIYYSDKYDDEFEYRHVMLPKDIAKLVPKTHLMSESEWRNLGVQQSQGWVHYMIHEPEPHILLFRRPLPK
KKKK

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FIGURE 396

AGCCAGAAATGTGAAGTGCTAGCTGAAGGATGAGCAGCAGTAGCCAGGCAAAGGGGGCAATGGCGGCTTCTGT
GTTCTACTGCACACTGGCAGAAGATGCCTCTGATTGGTCTGGGTACCTGGAAGAGTGAGCCTGGTCAGGTAAAA
GCAGCTGTTAAGTATGCCCTAGCGTAGGCTACCGCACATTGATTGTGCTGCTATCTACGGCAATGAGCCTGAG
ATTGGGGAGGCCCTGAAGGAGGACGTGGACCAGGCAAGGGGTGCCTCGGGAGGAGCTGTTGTGACATCCAAG
CTGTGGAACACCAAGCACCACCCGAGGATGTGGAGCCTGCCCTCGGAAGACTCTGGCTGACCTCCAGCTGGAG
TATCTGGACCTGTACCTGATGCACTGGCCTATGCCTTGAGCGGGAGACAACCCCTCCCCAAGAATGCTGAT
GGGACTATATGCTACGACTCCACCCACTACAAGGAGACTTGGAAAGGCTCTGGAGGCACTGGTGGTAAGGGCTG
GTGCAGCGCTGGCCTGTCCAACTTCAACAGTCGGCAGATTGATGACATACTCAGTGTGGCTCCGTGCTCCA
GCTGTCTTGCAGGTTGAATGCCACCCATACTTGGCTAAAATGAGCTAATTGCCACTGCCAACGTGGCTTG
GAGGTAACTGCTTATGCCCTTGGCTCTGATCGCATGGCGTGTACCTGATGAGCCTGTGCTGGAG
GAACCAGTAGTCCTGGCATTGGCTGAAAAGTATGGCGATCTCAGCTCAGATCTTGTCAAGGTGGCAGGTCCAG
CGGAAAGTGTGCACTCCAAAAGTATCACTCCTCTCGAACATCCTCAGAACATCAAGGTGTTGACTTCACC
TTAGCCCAGAAGAGATGAAGCAGCTAAATGCCCTGAACAAAATTGGAGATATATTGTGCTATGCTTACGGTG
GATGGGAAGAGAGTCCCAAGGGATGCAGGGCATCCTCTGTACCCCTTAATGACCGTACTTGAACCCACAGCTTC
TTGGCCTCCCTCAGCTGCAGCTAATGAGGTCTGCCACACGGAAAGAGGGAGTTAATAAGCCATTGGAG
CATCCAT

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FIGURE 397

MAASCVLLHTGQKMPLIGLGTWKSEPGQVKAAVKYALSGYRHIDCAAIYGNEPEI**G**EALKEDVGPGKAVPREEL
FVTSKLWNTKHHPEDVEPALRKT**LADLQLEYLDLYLMHWPYAFERGDNPFPKNADGTICYDSTHYKETWKALEAL**
VAKGLVQALGLSNFNSRQIDDILSVASVRPAVLQVECHPYLAQNELIAHCQARGLEVTA**SPLGSSDRAWRDPE**
PVLLEEPVV**LALAEKYGRSPAQILLRWQVQRKVICIPKSITPSRILQNIKVFDFTFSPEEMKQLNALNKNWRYIV**
PMLTVDGKRVPRDAGHPLYPFND**PY**

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FIGURE 398

GC GGCGCTCGGCCAAGGGACGTGTTCTGCGCTCGCGTGGCATGGAGGCGCTGCCGCTGCTAGCCGCGACAAC
TCCGGACCACGGCCGCCACCGAAGGCTGCTCTGCTGCCGCTACTGCTGTTCTGCTGCCGCTGGAGCTGTGCA
GGGCTGGGAGACAGAGGAGAGGAGCCCCGGACTCGCGAAGAGGAGTGCCACTTCTACGCGGGTGGACAAGTGTACCC
GGGAGAGGCATCCGGGTATCGGTGCCGACCACCTCCCTGCACCTAACGCAAAGCGAAGATTCCAAGGCCAGCGCC
CTACTGGGAAGGAACAGCTGTGATCGATGGAGAAATTAAAGGAGCTGAAGTTAAC TGATTATCGTGGAAATACTT
GGTTTTCTTCTTACCCACTTGATTTCACATTGTGTCCAAC TGAAATTATCGCTTTGGCGACAGACTTGA
AGAATT CAGATCTATAAAATACTGAAGTGGTAGCATGCTCTGTTGATTCACAGTTACCCATTGGCCTGGATTAA
TACCCCTCGAAGACAAGGAGGACTGGGCCAATAAGGATTCCACTTCTTCAGATTGACCATCAGATCTCAA
GGACTATGGGTATACCTAGAGGACTCAGGCCACACTCTTAGAGGTCTTCATTATTGATGACAAAGGAATCCT
AAGACAAATTACTCTGAATGATCTTCCGTGGTAGATCAGTGGATGAGACACTACGTTGGTTCAAGCATTCCA
GTACACTGACAAACACGGAGAAGTCTGCCCTGCTGGCTGGAAACCTGGTAGTGAAACAATAATCCCAGATCCAGC
TGGAAAGCTGAAGTATTCGATAAACTGAATTGAGAAATACTTCTCAAGTTATGATGCTTGAAGTTCTCAATA
AAGTTCACGGTTTCAATTACCA

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FIGURE 399

MEALPLILAATTDPDHGRHRRLLLLPLLFLLPAGAVQGWETEERPRTREEECHFYAGGQVYGEASRVSVADHSLH
LSKAKISKPAPYWEFTAVIDGEFKELKLTDYRGKYLVFFFYPLDFTFVCPTEIFAFGDRLEFRSINTEVVACSV
DSQFTHLAWINTPRRQGGGLGPIRIPLLSDLTHQIŠKDYGVYLEDSGHTLRGLFIIDDKGILRQITLNDLPVGRSV
DETLRLVQAFQYTDKHGEVCPAGWKPGSETIIPDPAGKLKYFDKLN

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FIGURE 400

CCGCTGGCGTAGCTGCGACTCGCGGAGTCCCAGCGCGCTGCTTCTAACCCGGCGGCCATGACCGTCG
CGCGGCCGAGCGTGCCCCGCGCTGCCCTCCTCGGGGAGCTGCCCGGCTGCTGCTGCTGGTGCTGGTGC
TGCCGGCGTGTGGGTGACTGTGGCTTCCCCAGATGTACCTAATGCCAGCAGTTGAAGGCGTACAA
GTTTCCGAGGATACTGTAATAACGTACAAATGTGAAGAAAGCTTGTGAAAATTCTGGCGAGAAGGACTCAG
TGATCTGCCTAAGGGCAGTCATGGTCAAGATATTGAAGAGTCTGCAATCGTAGCTGCGAGGTGCCAACAGGC
TAAATTCTGCATCCCTAAACAGCCTTATATCACTCAGAATTATTTCCAGTCGTACTGTTGTGGAATATGAGT
GCCGTCCAGGTTACAGAAGAGAACCTCTCATCACCAAACACTTGCCCTCAGAATTAAAATGGTCCACAG
CAGTCGAATTGTAAAAAGAAATCATGCCCTAATCCGGAGAAATACGAAATGGTCAGATTGATGTACCAAGGTG
GCATATTATTGGTCAACCCTCCTCTCATGTAACACAGGGTACAAATTATTGGCTGACTTCTAGTTT
GTCTTATTTCAGGCAGCTGTCCAGTGGAGTGACCCGTTGCCAGAGTGCAGAGAAATTATTGTCCAGCACCAC
CACAAATTGACAATGGAATAATTCAAGGGAACGTGACCATTATGGATATAGACAGTCTGTAACGTATGCATGTA
ATAAAGGATTCAACATGATTGGAGAGCACTCTATTATTGACTGTGATAATGATGAAGGAGAGTGGAGTGGCC
CACCACTGAAATGCAGAGGAAATCTCTAACCTCCAAGGTCCCACCAACAGTCAGAAACCTACCAAGTAAATG
TTCCAACACTACAGAAGTCTACCAACTTCTCAGAAAACCACCAACAAAACCACACCAAATGCTCAAGCAACAC
GGAGTACACCTGTTCCAGGACAACCAAGCATTTCATGAAACAACCCAAATAAGGAAGTGGAACCAACTCAG
GTACTACCCGTCTCTATCTGGGACACGTGTTCACGTTGACAGGTTGCTTGGGACGCTAGTAACCATGGC
TGCTGACTTAGCCAAAGAAGAGTTAAGAAGAAAATACACACAAGTATACAGACTGTTCTAGTTCTAGACTTA
TCTGCATATTGGATAAAATAATGCAATTGTGCTCTCATTAGGATGCTTCTAGTCTTAAGATGTGTTAGG
AATGTCAACAGAGCAAGGAGAAAAAGGCAGTCCTGGAATCACATTCTAGCACACCTACACCTCTGAAAATAG
AACAACTTGCAGAATTGAGAGTGATTCTTCTAAAGTGTAAAGAAAGCATAGAGATTGTTGTATTAGAAT
GGGATCAGGAGAAAAGAGAAGGAAAGTGATTTTCCACAAGATCTGTAATGTTATTCCACTTATAAAGGAA
ATAAAAATGAAAACATTATTGGATATCAAAGCAAATAAAACCCAAATTCAAGTCTCTAAGCAAATTC
TAAAGAGAGATGAACCACATTATAAGTAATCTTGGCTGTAAGGCATTTCATCTTCTCGGGTTGGCAAAA
TATTTAAAGTAAAACATGCTGGTGAACCAGGGGTGTTGATGGTGATAAGGGAGGAATATAGAATGAAAGACTG
AATCTCCTTGTGACAATAGAGTTGGAAAAAGCCTGTGAAAGGTGCTTCTTGACTTAATGCTTTAAA
AGTATCCAGAGATACTACAATATTAACATAAGAAAAGATTATATTATTGTAATCGAGATGTCCATAGTC
ATTGTAATCTTATTCTTGTAAATTATTTATTTATGACAGTGAACATTCTGATTTCATGTAA
ACAAGAAAAGTTGAAGAAGATGTGAAGAAAATGTATTTCCTAAATAGAAATAATGATCCCATTGGT
GT

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FIGURE 401

MTVARPSVPAALPLLGEPLRLLLVLCLPAVGDCGLPPDVPNAQPALEGRTSFPEDTVITYKCEESFVKIPGE
KDSVICLKGSQWSDIEEFCNRSCEVPTRLNSASLKVQPYITQNYFPVGTVVVEYECRPGYRREPSLSPKLTCQLNLK
WSTAVEFCKKKSCPNCNPGEIRNGQIDVPGGILFGATISFSCNTGYKLFGSTSSFCLISGSSVQWSDPLPECREIYC
PAPPQIDNGIIQGERDHGYRQSPTYACNKGFTMIGEHSIYCTVNNDEGEWSGPPPECRGKSLTSKVPPVTQKPT
TVNVPTTEVSPTSQKTTKTTTPNAQATRSTPVSRKKHFETTPNKGSGTTSGTRLLSGHTCFTLTGLLGTLV
TMGLLT

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FIGURE 402

ATGTTCCGAGCGGGCTCCGGGCAGCTCCGGGGCGGCCATTGCTACGATTCAAGGTACCCCTGGTAATA
GCTGAGCATGCAAATGATTCCCTAGCACCCATTACTTAAATACCATTACTGCAGCCACACGCCCTGGAGGTGAA
GTGTCCCTGCTTAGTAGCTGAAACCAATGTGACAAGGTGGACAAGATCTGTAAAGTAGCAGGCATAGCAAAA
GTTCTGGGGCTCAGCATGATGTACAAAGGCCTACTTCCAGAGGAACGTGACACCATTGATTTGGCAACTCAG
AAGCAGTTCAATTACACACATCTGTGCTGGAGCATCTGCCCTCGGAAAGAACCTTTGCCAGAGTAGCAGCC
AAACTTGAGGTTGCCCGATTCTGACATCATTGCAATCAAGTCACCTGACACATTGTGAGAAACTATTTATGCA
GGAAATGCTCTATGTACAGTGAAGTGTGATGAGAAAGTGAAGTGTGTTCTGTCCGTGGAACATCCTTGATGCT
GCAGCAACAAGTGGCGGTAGTGCAGTTCAAGTACTTCACCAGTGGAAATATCAGAGTGGCTT
GACCAGAAATTAAACAAAAGTGATCGACCAGAGCTAACAGGTGCCAAAGTGGTGTATCTGGTGGTCAGGCTT
AAGAGTGGAGAGAACTTAAAGTTGTTATGACTTGGCAGATCAACTACATGCTGCAGTTGGTGTCTCCGTGCT
GCTGTTGATGCTGGCTTGTCCCAATGACATGCAAGTTGGACAGACGGGAAAAATAGTAGCACCAGAACTTAT
ATTGCTGTTGGAATATCTGGAGCCATCCAACATTAGCTGGGATGAAAGACAGCAAGACAATTGTGGCAATTAAAT
AAAGACCCAGAAGCTCAATTTCAGTGGCAGATTATGGAATAGTGCAGATTATTAAGGTAGTTCTGAA
ATGACTGAGATATTGAAGAAAAAATGAATCAGGATCATGCCCTAAAAAGAAAATTGTTAAAGTATTCCACTG
AAATCACAGATATTGTGGGTATTATAACAATCATTGGAAAGCATGGAGAGCTACATTCTATAATTGAGGGAAA
ATTCTAACAGATGCCAGAATGCTGTTATGGGATTGCTGTGTTCTTTAATTATTGTGGTCCAAACAAAT
TATTGTTGAACTTTTAATTCTGACTAAAATCTATAATAAGCTTCCACAGCTTAAACT

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FIGURE 403

MFRAAAPGQLRRAASLLRFQSTLVIAEHANDSLAPITLNNTITAATRLGGEVSCLVAGTKCDKVAQDLCKVAGIAK
VLVAQHDVYKGLLPEELTPLILATQKQFNYTHICAGASAFCGNLLPRVAAKLEVAPISDIIAIKSPDTFVRTIYA
GNALCTVKCDEKVVFVSRGTSFDAAATSGGSASSEKASSTSPVEISEWLDQKLTKSDRPELTGAKVVVSGGRGL
KSGENFKLLYDLADQLHAAVGASRAAVDAGFVPNDMQVGQTGKIVAPELYIAVGISGAIQHLAGMKDSKTIVAIN
KDPEAPIFQVADYGIVADLFKVVPEMTEILKKK

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FIGURE 404

CTGATCCGGGCCGGCGGGAAAGTCGGGTCCCAGGGCTCCGGCTCGGCAGACCGGGCGGAAAGCAGCCGAGCGGCC
ATGGAGCTGTGCGGGCTGGGCTGCCCCGGCCGCCATGCTGCTGGCGCTGCTGTTGGCGACACTGCTGGCGCG
ATGTTGGCGCTGCTGACTCAGGTGGCGCTGGTGGTGCAGGTGGCGAGGCGCTGGGCCCGAGCGTCTCGGCC
AAGCCGGGCCGGCGCTGTGGCCCTGCCGCTCGGTGAAGATGACCCGAACCTGCTGCATCTGCCCGGAG
AACTTCTACATCAGCCACAGCCCAATTCCACGGGGCCCTCCTGCACCCTGCTGGAGGAAGCGTTCGACGA
TATCATGGCTATAITTTGGTTCTACAAGTGGCATCATGAACCTGCTGAATTCCAGGCTAAAACCCAGGTTCA
CAACTCTTGCTCAATCACCCCTCAGTCAGAGTGTGATGCTTCCCCAACATATCTTCAGATGAGTCTTAACT
TTACTTGTGAAAGAACCAAGTGGCTGTCTTAAGGCCAACAGAGTTGGGAGCATTACGAGGTTAGAGACCTT
AGCCAGTTAGTTATCAAGATTCTATGGAACCTTCACCATCAATGAATCCACCAATTATTGATTCTCCAAGGTT
TCTCACAGAGGAATTGATTGATACATCCAGACATTATGCCAGTTAACAGATTATTCTTAAACTCTGGATGCC
ATGGCTTTAATAAGTTAATGTTCTTCACTGGCACATAGTTGATGACCAGTCTTCCATATCAGAGCATCACT
TTTCTGAGTTAACAAAGGAAGCTATTCTTGTCTCATGTTAACACCAAATGATGCCGTATGGTATT
GAATATGCCAGATTACGAGGAATTGAGTCCTGCCAGAATTGATACCCCTGGGCATACACTATCTGGGAAAA
GGTCAGAAAGACCTCCTGACTCCATGTTACAGTAGACAAAACAAGTTGACTCTTGGACCTATAAACCTACT
CTGAATACAACATACAGCTTCTTACTACATTTCAAAGAAATTAGTGAGGTGTTCCAGATCAATTCAATT
TTGGGAGGAGATGAAGTGGAAATTAAATGTTGGAAATCAAATCCAAAATTCAAGATTTCATGAGGCAAAAGGC
TTTGGCACAGATTAAAGAAACTAGAAATCTTCTACATTCAAAGGTTGGATATTATTGCAACCATAAACAG
GGATCCATTGTCGGCAGGAGGTTTGATGATAAAGCAAGCTGCCGGGACAATAGTTGAAGTATGGAAA
GACAGCGCATATCTGAGGAACTCAGTAGAGTCACAGCATCTGGCTCCCTGTAATCCTTCTGCTCCTGGTAC
TTAGATTGATTAGCTATGGACAAGATTGGAGAAATACTATAAAGTGGAACCTCTGATTGTTGGCGGTACTCAG
AAACAGAAACAACCTTCATTGGTGGAGAAGCTTGTCTATGGGAGAATATGTGGATGCAACTAACCTCACTCCA
AGATTATGGCCTCGGGCAAGTGCCTGGTGGAGAGACTCTGGAGTTCAAAGATGTCAGAGATATGGATGACGCC
TATGACAGACTGACAAGGCACCGCTGCAGGATGGTCGAACGTGGAATAGCTGCACAACCTTTATGCTGGATAT
TGTAACCATGAGAACATG**TAAA**ATGGAGGGAAAAGGCCACAGCAATCTGACTACAATCAACTTATTGAA
AAATCATGAAAATAAGATATTAGACTTTGAATAAAATATTGATTGAA

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FIGURE 405

MELCGLGLPRPPMILLALLLATLLAAMILALLTQVALVVQVAEAARAPSVAKPGPALWPLPLSVKMTPNLLHLAPE
NFYISHSPNSTAGPSCTLLEEAFRRYHGYIFGFYKWHHEPAEFQAKTQVQQLLVSITLQSECDAFPNISSDESYT
LLVKEPVAVLKANRVWGALRGLETFSQLVYQDSYGTFTINESTIIDSPRFSHRGILIDTSRHYLPVKIILKTLD
MAFNKFNVLHWIIVDDQSFPYQSITFPELSNKGSYSLSHVYTPNDVRMVIEYARLRGIRVLPEFDTPGHTLSWGK
GQKDLLTPCYSRQNKLDSFGPINPTLNNTYSFLTFFKEISEVFPDQFIHLGGDEVEFKCWESNPKIQDFMRQKG
FGTDFKKLESFYIQKVLDIIATINKSIVWQEVFDDKAKLAPGTIVEVWKDSAYPEELSRVTASGFPVILSAPWY
LDLISYGQDWRKYYKVEPLDFGGTQKOKQLFIGGEACLWGEYVADNLTPRLWPRASAVGERLWSSKDVRDMDDA
YDRLTRHRCRMVERGIAAQPLYAGYCNHENM

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FIGURE 406

CTGGTCCCAGCAGCTGTGAGGGGATTCACTTGTGCGGAACCTCCTCGGAACCATGGCGTCCCTTCCCTTGCACCTGTTAACATCTTAAAGGCAGGAGCTGATGAAGAGAGAGCAGAGACAGCTCGTCTGACTCTTTATTGGTGCCATGCCATTGGAGACTTGGTAAAGAGCACCTGGGACCCAAAGGCATGGACAAAATTCTCTAAGCAGTGGACAGATGCCTCTTTATGGTAACCAATGATGGTGCCACTATTCTAAAAAACATTGGTGTGACAATCCAGCAGCTAAAGTTTAGTTGATATGTCAAGGGTCAAGATGATGAAGTTGGTGTGACTACCTCTGTTACCGTTTAGCAGCAGAATTATAAGGGAAGCAGAACATCTTAAATTGCAAAAAGATTCAACAGACCATCATAGCGGGTTGGAGAGAAGCCACGAAGGCTGCAAGAGAGGCCTGTTGAGTTCTGCAGTTGATCATGGTCCGATGAAGTTAAATTCCGTCAAGATTAAATGAATATTGGGGCACAAACATTATCCTCAAAACTCTTACTCATCACAAAGACCACTTACAAAGTTAGCTGAGAACAGCTCTCAGACTGAAAGGCTCTGGCAACCTGGAGGCAATTCAATTATCAAGAAGCTAGGAGAAGTTGGCAGATTCTTATTAGATGAAGGCTCCTGTTGGATAAAAATTGGAGTAAATCAACCAAAACGAATTGAAAATGCTAAAATTCTTATTGCAAATACTGGTATGGATACAGACAAAATAAGATATTGGTCCCGGGTAGAGTTGACTCTACAGCAAAGGTTGCAGAAATAGAACATGCGAAAAGGAAAAATGAAGGAGAAAGTTGAACGTATTCTTAAGCATGGAATAAAATTGCTTTATTAACAGGCATTAAATTATAATTATCCTGAACAGCTTTGGTGCTGCTGGTGTATGGCTATTGAGCATGCAGATTGCGAGGTGTGGAACGCCAGCTCTGTACAGGTGGTGAATTGCCCTACCTTGTGATCACCCAGAACTGGTGAAGCTTGGAAAGTTGCAAACCTATCGAGGAAGTCATGATTGGAGAAACAAACTCATTCACTTTCTGGGTTGCCCTGGTGAGGCTTGTACCATTTGCGTGGTGCCTCAACAAATTAGATGAAGCAGAAAGATCATTGATGATGCTCTTGTGTTCTGCGCAAACGTAAAGGACTCTAGAACAGTTATGGAGGAGGCTGTTCTGAGATGTTGATGGCTCATGCTGTGACACAGCTGCCAATAGAACACCAGGCAAGAGCTGTTGCAATGGAGTCTATGCTAAAGCACTGAGAATGTTGCCAACCATCATAGCTGACAATGCAGGCTATGACAGTCAGACCTGGTGGCACAGCTCAGGGCTGCTCACAGTGAAGGCAATACCAACTGCTGGATTGGATATGAGGGAAGGCACCATGGAGATATGGCTATCTGGGTATAACAGAAAGTTCAAGTGAAGCGACAGGTCTCTGAGTGCAGCTGAAGCAGCAGAGGTGATTCTCGGTGTGGACAACATCATCAAACGGCACCCAGGAAACGTGTTCTGATCACCACCCCTGTTAAGCATTCCCACGTGCTGTCATCTGGACCAGTTCTAGCAAAGTTGTGTTGAAAGATACTCTATTAAAGAAGACTGTGGAATCTGTTATCGGTGCCATTATATCCTTAAGTTGGATATTAGCTGACCTTGCCTTAACATAGGTCTAATTATTGCCGTGTCACTTCCATACAAATCAGTTGATTTAAAGGAGTTCAATTTCGCTACTGGCATTAAAATAAAATTGAACAAATGAAAGGAAAAAGGAGAAAAAA

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FIGURE 407

MASLSIAPVNIFKAGADEERAETARLTSFIGATAIGDLVKSTLGPKGMDKILLSSGRDASLMVTNDGATILKNIG
VDNPAAKVLVDMRSVQDDEVGDGTTSVTLAAELLREAESLIAKKIHPQTIIAGWREATKAAREALLSSAVDHGS
DEVKFRQDLMNIAGTTLSSKLTHHKDHFTKLAVEAVRLLKSGNLIAIHIIKKLGGSLADSYLDEGFLLDKKIG
VNQPKRIENAKILIANTGMDTDKIKIFGSRVRDSTAKVAEIEHAEKEKMKEKVERILKHGINCFINRQLIYNYP
EQLFGAAGVMAIEHADFAGVERLALVTGGEIASTFDHPELVKLGSCKLIEEVMIGEDKLIHFSGVALGEACTIVL
RGATQQILDEAERSLHDALCVLAQTVKDSRTVYGGGCSEMLMAHVTQLANRTPGKEAVAMESYAKALRMLPTII
ADNAGYDSADLVAQLRAAHSEGNTTAGLDMREGTIGDMAILGITESFQVKRQVLLSAAEAAEVILRVDNIIKAAP
RKRPDHHPC

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FIGURE 408A

GAATCCAAGGGGGCCAGTTCTGCCGCTGCTTCTGCCTCTTGATCTCCGCCACCGCTTCAGGCCAGGCCTT
 GGATGGTATACTGTAAATTCAAGCATATGGAGATACCATTATCATACTACCTTGCGACTTGACGTACCTCAGAACATCTC
 ATGTTGGCAAATGGAAAATATGAAAAGCCGATGGCTCCCAGTATTATTGCCTTCAGATCCTCTACAAAGAAA
 AGTGTGCAGTACGACGATGTACAGAATACAAAGACAGATTGAACCTCTCAGAAAACACTACACTTGTCTATCAGT
 AATGCAAGGATCAGTGTGAAAGAGATTGTGATGCTAGTAAC TGAGGACAACGTGTTGAGGCACCTACA
 ATAGTCAAGGTGTCAAGCAACCCTAAACCTGAAATTGTAAGCAAAGCACTGTTCTCGAAACAGAGCAGC
 AAAAAGTTGGGTGACTGCATTCTCAGAACAGTATCCAGATGGCAATATCACATGGTACAGGAATGGAAAAGTG
 CTACATCCCCCTGAAGGGAGCGGTGGTCATAATTTAAAAGGAAATGGACCCAGTGACTCAGCTCTAACCATG
 ACTTCCACCCCTGGAGTACAAGAACCAAGGCTGACATACAAATGCCATTACCTGCTCGGTGACATATTATGGA
 CCATCTGGCCAGAAAACAATTCAATTCTGAACAGGCAGTATTGATATTACTATCCTACAGAGCAGGTGACAATA
 CAAGTGTGCCACCAAAAAATGCCATCAAAGAAGGGATAACATCACTCTAAATGCTTAGGAATGGCAACCC
 CCCCCAGAGGAATTGTTACTTACCAAGGACAGCCGAAGGAATAAGAACGCTCAAACACTACACACTGACG
 GATGTGAGGGCGCAATGCAACAGGAGACTACAAGTGTCCCTGATAGACAAAAAAAGCATGATTGCTTCAACAGCC
 ATCACAGTTCACTATTGGATTGTCCTTAAACCCAAGTGGAGAAGTGACTAGACAGATTGGTATGCCCTACCC
 GTGTCACTGCACAATATCTGCTAGCAGGAATGCAACTGTGGTATGGATGAAAGATAACATCAGGCTTCGATCTAGC
 CCGTCATTTCTAGTCTCATTATCAGGATGCTGGAAACTATGCTCTGCAAACGCTCTGAGGAGGTTGAAGGA
 CTAAGAAAAGAGAGTCATTGACTCTCATTGAGAACCTCAAATAAAATGACAAGAAAAGTGATCCC
 AGTGGACTATCTAAACAATACTGCATGTGGAGGTTCCAAAGCCAGCATTCACTGGACAATTACTGGC
 AGTGGAAAGCGTCATAAACCAACAGAGGAATCTCCTTATTAATGGCAGGTATTATAGTAAAATTATCATTCC
 CCTGAAGAGAATGTTACATTAACCTGCAACAGCAGAAAACCAACTGGAGAGAACAGTAAACTCCTGAAATGTC
 GCTATAAGTATTCCAGAACACGATGAGGCAGACGAGATAAGTGATGAAAACAGAGAAAAGGTGAATGACCAGGCA
 AAACAAATTGTGGGAATCGTTGGCTCCTCTGCTGCCCTGTTGCTGGTGTCTACTGGCTGTACATG
 AAGAAGTCAAAGACTGCATAAAACATGTAACAAAGGACCTCGGTAAATATGGAAGAAAACAAAAAGTTAGAAGAA
 ACAATCACAAACTGAAGCTAAAGAGAGAAACTGTCCTAGTGTCCAGAGATAAAAATCATATAGACCAATTGA
 AGCATGAACGTGGATTGTATTAAGACATAAACAAAGACATTGACAGCAATTCTGTTCAAGTATTAGCAGTT
 ATTCTACCAAGCTGCACAGGTTTCAGAGAATTATCTCAAGTAAAACAAATGAAATTAACTAACAAACAATAAG
 ACAAGTATTGGCAGCCATGATAATAGGTCAATGTTGTTGGTCAATTTCCTCGAAATGTC
 GACTGAGATTCTTTGGTTGCCCTTATGTAATTGTTACGTAGCTATTGTTACACTGTAAGCTTGTCTG
 GGAGTTGCTGTTAICGTGTTAATGTAATGTTATTCAATTGTTATATGGATAATCTGAGCAGGTACA
 TTTCTGATTCTGATTGCTATCAGCAATGCCAAACTTTCTCATAAGCACCTAAAACCCAAAGGTGGCAGCTTGT
 GAAGATTGGGGACACTCATATTGCCCTAAATTAAAAACTGTGATTGTTATCACAGGGAGGGAGGCCAGAGTCA
 GACTGATAGACACCATAGGAGCCGACTTTGATATGCCACCAGCGAACCTCAGAAATAACATCAGATGCATA
 TAGACACACATACATAATGGTACTCCAAACTGACAATTTCACCTATTCTGAAAAGACATAAACAGAAATTGG
 TAGCACTTACCTCTACAGACACCTGCTAATAATTGTTCTGCAAAGAAAAACACAAGCATGTTGAGAGA
 CAGTTGGAAAATCATGGTCAACATTCCATTTCATAGATCACAATGTAATCACTATAATTACAAATTGGTG
 TTAAATCCTTGGTTATCCACTGCCCTAAAATTATACCTATTCTGTTAAAAGATATCAATCAGAACATTGGA
 GTTTTAAACAGTGGTCATTATCAAAGCTGTGTTATTCCACAGAAATAGAATATATATTGTTCTGTTG
 TTTGTTAACTACCCCTACAGATATTGAATGCACCTTGAGATAATTGTTACTGATAACATAATTATCAA
 GCAGTACATGAAAGTGTAAATAAAATGTCTATGTTACTTACATTCAAATTGTAACATTATAAACATG
 TTTATGCTTGAGGAAATTGTTAAGGTGGTAGTATAATGAAACTTTGAGTACAGGAGATATGGCTACTT
 GTGACTAGACTTTAAACTTGCTTCAAGCAGAAGCCTGGTTCTGGGAGAACACTGCACAGTGATTCTT
 CCCAGGATTACACAACCTTAAAGGGAGATAAAATGAACATCAGATTCTAGGTATAGAACATGTTATTGAAAG
 GAAAAGGGAAAATGGTGTGTTCTAGACTCATGAAATAAAAATTATGAAGGCAATGAAAATAATTGAAA
 ATTAAAGTCAGATGAGAATAGGAATAATACCTTGCCACTCTGCATTATTAGAACATACGTTATTGTCATT
 GTAAACCAATTACTGTCTGGCAATAGTGACTCCGTTAATAAAAGCTCCGTAGTGCATTGGTATGGATTAAAT
 GCATAAAATATCTAGACTCGATGCTGTTAAATTATGGAAAAAGAAATACGTTATTGCTCTAAACT
 TTGTTAAGGTTATTGGCAGGAAAAAAATTGAATCTGGTCAACATTAAACCAAAGTAAAGGGAAAAA
 CCAAAGTTATTGTTGCATGGCTAAGCCATTCTGTTATCTGTAATACTGTTATTCTC

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FIGURE 408B

TTTAGAATTTGTTAAAGAAATTCTAAAATTTAACACCTGCTCTCCACAATAAATCACAAACACTAAAATAA
AATTACTTCCATATAAATATTATTTCTCTTTGGTGTGGGAGATCAAAGGTTAAAGTCTAACTTCTAAGATAT
ATTTGCAGAAAGAACATGACAATAGAGAGAGTTATGCTACATTATTCTGGTTCCACTGCAATGGTTA
ATTAAGTCCAAAACAGCTGTCAGAACCTCGAGAGCAGAACATGAGAAACTCAGAGCTCTGGACCGAAAGCAGAA
AGTTTGCCGGAAAAAAAAGACCACATTATTACCATCGATTGCTGGATAAAGAGGAAAGCTTACTTGT
AATGGCAGCCACATGCACGAAGATGCTAAGAAGAAAAGAATTCCAATCCTCACTTTGAGGTTTGGCTCTC
CAATTAACTCTTGGCAACAGGAAACAGGTTTGCAAGTTCAAGGTTCACTCCCTATATGTGATTATAGGAATT
GTTTGTGAAATGGATTAACATACCCGTCTATGCTAAAAGATAATAAGAAAATGAAATATGTCTTCAAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 409A

TCAACACAGGACA**ATG**CAAGCCCAGTGGACTGTTCCGGTATTTCGAATGCCAGAGCTGGTTGACTCCGACAGTA
 CGTGCCTACTCTCCGACCAACACGTTATGGGCTTCGGAGCTTGCAGCACTCACCACCTCTGGTACGCCAC
 GAGACCCAAACCCCTGAAGCCGCACTGCACCTCTCCATGCAGTCAGTGGAAAGTGGCGGGTAGTGGTGGTGCACG
 AAGATCCGCACTACTTGACAGCGACGAGCCCTGGTGTATTCTATGATGATGTACAACATTATAAGGTT
 CCAGAGGGAAATACAGGTGTCAAATAATGGCCCTGTTAGGCTCTGGAAACAGACCAACCCATGAATGGCT
 TTCATATAAACAGGTTGCAGAAATTGTCGGAGTGCATAGGCTCAGCACTGATCCAGAAGGGCTCAAGACTGCC
 AGATCAGTTCATGGCATCTTGCTCAAAATAGACCTGAGTGGGTGATTATTGAAACAAGGATGCTTGCTTATT
 GATGGTATCGTCCACTTTATGATAACCTTGGAAATGAAGCCATCACGTACATAGTCACAAAGCTGAACCTC
 TCTGGTTTGTGACAAGCCAGAGAAAGCCAAACTCTTATTAGAGGGTAGAAAATAAGTTAACACCAGGC
 TAAAATCATAGTTGTCATGGATGCCTACGGCAGTGAACCTGGTGAACCGAGGCCAGAGGTGTTGGTGGAA
 CAGCATGAAGGCAGATGGAGGACCTGGGAAGAGCCAACAGACGGAAGGCCAACGCTCCAGCACCTGAAGATCT
 AGTAATTGTTACAAGTGGAACTACAGGCAACCCAAAGGAGCAATGGTCACTCACCGAAACATAGTGAGCGA
 TTGTTCAGCTTGTGAAAGCAACAGAGAAATACAGTCATCCITGCCAGATGATACTTTGATATCTTCTTG
 TCTGCCCATATGTTGAGAGAGTTGAGAGTGTGTAATGCTGTGTCATGGAGCTAAATCGGATTTCCAAGG
 AGATATCAGGCTGCTCATGGATGACCTCAAGGTGTTCAACCCACTGCTTCCCCGTGGTCCAAGACTGCTGAA
 CCGGATGTTGACCGAATTTGGACAAGCAAACACCACGCTGAAGCGATGGCTTGGACTTGCCTCCAAGAG
 GAAAGAACGAGCTCGCAGCGGCAATCAGAAACACAGCCTGTGGACCGGCTGATCTCACAAAGTACA
 GTCGAGCCTGGCGGAAGAGTCCGGTGTGGTGAACAGGAGCCGCCGGTGTGCCACTGTGCTGACGTT
 CAGAGCAGCCCTGGCTGTCAGTTATGAAAGGATACGGACAGACAGAGTGCAGTGCCTGGTGCTGCCAAC
 GCCTGGAGACTGGACCGCAGGCCATGTTGGGCCGATGCCGTGCAATTGATAAAACTTGTGATGTTGAA
 AATGAATTACATGGCTGCCGAGGGCGAGGGCGAGGTGTTGAAAGGGCAAATGTATTCAGGGCTACTGAA
 GGACCCAGCGAAAACAGCAGAACAGCTTGGACAAAGACGGCTGGTTACACACAGGGACATTGAAAATGGT
 AAATGGCACCTGAAAATTATGACCGAAAAAGCACATATTAAGCTGGCACAGGAGAAATACATAGCCCTGA
 AAAGATTGAAAATATCTACATGCGAAGTGAGCCTGTCAGGTGTTGTCACGGGAGAAAGCCTGCAGGCATT
 TCTCATGCAATTGTTGACAGATGTTGAGACATTATGTTCTGGGCCAAAAGAGAGGATTGAAAGGGT
 TGAGGAACGTGCAAGAAATAAGGATGTCAAAAAGCTATCCTCGAAGATATGGTGAAGACTTGGAAAGGATT
 TCTGAAACCATTGAAACAGGTCAAAGGCATCACATTGCAACCTGAATTATTTCTATGACAATGCCCT
 TCCAACAATGAAGGCAGAACAGCAGACCGCCTACAGTCACCTCATGTTGCAAGACCATGTTATG
 CAAGGTT**ATG**TGCAAGAACAGCTCAGAGGAATGGCACAGTTCCACAATCTCTCTGCTGATGGCCT
 ATGTTGTTAATTGAAATACAGCAAGTGAGGGAAAGCAGCTGGTGTGTTGACTTGCCATTGGGTTCT
 CATAGGAATGCTAGAGGAAACAGAACACCGCCTACAGTCACCTCATGTTGCAAGACCATGTTATG
 ACTTTCCAAAATGAGCCTAAAAATTGTAAGGGGAACTATAATGCTAAGTTATTGAGACTTCTCAGTT
 TAAAAAGTGGTTTAAATCTCTGTCCTGCTTTCTAATCAAGGGTTAGGACTTGTATCTGAGATG
 TCTGCTACTTGCTGCAAATTCTGCAAGCTGTCAGTGTGCTCTAAAGAGTACAGTGCAGTAGAGGG
 ACTGTTCCCTTAAATGAGGATCTCACAAGCGGACAGAGATCTTAAATCCCTGCTACTGT
 CCCTCTCACAGGATTACAGAACCCCTGATCGTAAGGGTACGAAACTCATGTTCTCCAGCCT
 TGGTTCTGTTGGAGCATAGGTTCCAGTAAGCGGGAGGGCAGATCCAACCTCAGAACCATG
 CAGATAAGGAGCCCTGGCAACAGCTGGTGGATTCTCTTCAAGGCTCTGGACTCGGTTCT
 CCTGATTCCCCGACTCCATCTTCAAGGGTTATTAAAAATCTGCCCTAGATTCTATAGTGAAGACAAG
 CATTCAGGAAAGAGTTACCTGGATCAGCCATGTCAGCTGTGACGCCGTAATAACTG
 CTACTTTATGTTGAGGATCTACAGGAAACAGATTAAATGTTGTTCTATCAAAG
 ATCATGTTGGGATTAAACTGCTTAAAGCTATTAAAGGAGTATATACTTGAGTACT
 ATTGAAATGGACAGTAATAAGCAAATGTTCTATAATGCTACCTGATTCTATG
 AAATGTGTTGACAAGCCAAAATTCTAGGATGTAAGGTTCTGCTTCACTTCT
 GAAATTAAACAGCAGTTCACTTATTGAGTCTTGCCACATTGACTGAAATTGAG
 CTGTCATTGTCATTTAAAGTTAATGAGGTTCTGAGAGTACATG
 ATTATATAACAGCACAACAGGAGCTTGCACTAAAGAATTGTC
 TTGTAATAACACTACTTGGTAGCCTAACCTCATATGTTATTCT
 TAATTGCAACAAAAGTCATAATTGTCACAAACAAAAC
 TTGGGTTTGAATGTTGCTTAAGTGTGGCTATTCTATGTTATA
 AACAAAACAAAATTCCAAAACA

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FIGURE 409B

ATGAAGGAAACCAAAATAAAATTTCTGCATTCG

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FIGURE 410

MQAHELFYFRMPELVDFRQYVRTLPTNTLMGFGAFAALTTFWYATRPKPLKPPCDLSMQSVEAGSGGARRSAL
LDSDEPLVYFYDDVTLYEGFQRGIQVSNNGPCLGSRKPDQPYEWLSYKQVAELSECIGSALIQKGFKTAPDQFI
GIFAQNRP EWVIIEQGCFAYSMVIVPLYDTLGNEAITYIVNKAELSLVFDKPEAKLLLEGVENKLIPGLKIIIV
VMDAYGSELVERGQRCGVEVTSMKAMEDLGRANRRKP KPPAPEDLAVICFTSGTTGNPKGAMVTHRNI VSDCSAF
VKATENTVNPCPD TLISFLPLAHMFERVVECVM LCHGAKIGFFQGDIRLLMDDLKVLQPTVFPVVPRLLNRMFD
RIFGQANTTLKRWLLDFASKRKEAELRSGIIRNNNSLWDRLIFH KVQSSLGGRVRLMVTGAAPV SATVLTFLRAAL
GCQFYEGYGQTECTAGCCLTMPGDWTAGHVGAPMP CNLIK IVDVEEMNYMAAEGEGEVCVKGP NVFQGYLKDP AK
TAEALDKDGWLHTGDI GKWL PNTLKI IDRKKHIFKLAQGEYIAPEK IENI YM RSEPVAQVF VHGESL QAF LIAI
VVPDVETLC SWAQKRGFEGSFEELCRNKDVKKAI LEDMVR LGKD SGLKP FEQVK GITL HPEL FSIDN GL LTPT MK
AKRPELR NYFRSQ IDDL YSTIKV

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FIGURE 411

GAGAATGGCTCAACTCTCAAATAGAGAGAATTCTATCAGTTGCAAGTACGAAAATTCCGCCATTATATAA
AATACTGGGAGTTGCAGTTATCTGGAAGAAATGTAACTGGCTAACAGCTTATCCAAAGGAAAACGATTGG
TGTTTTAGCTCTGAGAGAATAATGAAGAGAAGAAAGATACAGAGAGAAATGACATACAAGATCTCACGAAT
ATCATTCTGGTTATGTTCATAAATTGCCGCACGTCAATGCGTAATGGGAAAACTGAGTGTACCTTCCA
TCCAGACTCAAGAGAACTTCCGGCCAATTAAACGAACTTGAATTGTAATGTAATCAGTCTGTTAACTA
CACAAAGGAAGTTGAAAGCCATGTCTGTGGTAGTGGAACCAACTGGCTAGAGCTGTCTGAATC
CTATGGACTCTGACAAAAGATTGACTACAACATCTGAGAGAATTATTGGTACTTAAGAGATTCAATG
AAGATCAAAGCAATAGAAACTGCATATGTATGGTAAACACTCACCATCAGTTGCCAAATCGCTTGA
TTCATGGACCACTGGAACAGGAAATCAAAACTATTGTTGGCCTCCTATCGTACTGACAGAGAAC
GGAAGGGGCATTCAGACGAAACTCCATGCCAAATCAAACAAACCGTGTGTGCACCTTCCAATG
CAGCTGTTGATGAACTCATGAAAAAAATTATCCTGAATAGAAAAAATGTAAAGACAAGAAGAAC
GAAACTGTGGAGATATAAATTAGTACGTGGTCCAGAAAGTCTATTTAATAGTGAGGTCTAAAGTCAGT
TGGACAGCCAAGTAAACCACAGAATGAAAAAAGAGTTACCTCTATGTTCAGGGGATGCATAAAAGAAAGGAAT
TTCTAGATTATCAGCTGGATGAGCTTCCGGAGCGAGCTCTATGCCGAGGTGGACGGAAATACAGAGGCAAG
AATTAGATGAAACATTCAAAGTTCTAAGGAAAGGCAGGAACTTGCTTCTAAATTAAAGAGGTTCAAGGAC
GCCCCACAGAAACACAGATTCACTCATCTAGAGTCCCATTATCATCGCTGCACGTTGAGCACAAGGTGGTGGT
TACTACTGAGTCTGTTCCGTGGCAAGGGGGTGTCCCCTCAGCTGTGTCATTGTTGATGAGGCTGGACAG
CTTGTGAAATTGAGACTCTTACTCCACTCATCCATCGCTGCAATAAGCTCATCTTAGTAGGAGATCCTAAGCAGC
TCCCTCCGACAGTCATCTATGAAAGCACAGGAGTATGGCTACGACCAGTCATGATGGCTCGTTTGCAGAC
TGCTGGAAGAGAATGTAGAACACAACATGATCAGCAGGCTGCCATTCTACAGCTACTGTTCAGTACAGGATGC
ATCCAGACATATGCCCTTCCTCTAATTATGTTATAACAGAAACTTTAAACAAATAGACAGACAGAAC
TTCCGATGTTCATCAGATTGGCATTTCAGCCATACCTTGTTGATGTTGGAGATGGTCAGAAAGACCGGGGATA
ATGACTCATATATAAATGTTCAAGAAATAAAACTGGTATGGAAATAATTAGCTTATAAAGACAAAGAAAGG
ATGTTAGTTCGAAACATTGGCATAAACTCATTACAAGGCCAGAGACGATGATTGAGGATTGGACA
AAGAGTCGATAGAAAGGACCAGCAGAAGTAGACACTGTGGATGCATTCCAGGGTCGGCAGAAGGATTGTGTTA
TTGTTACGTGTCAGAGCAAATGCATCCAAGGTCATTGGATTCCGGCAAGTTGCAGAGGATTGAATGTCA
CCATCACACGAGCCAAGTACAGCCTCTCATCCTCGGAATTGAGGACCCGTATGGAAAACCAGCATTGGAATC
AGCTGATTCAGGAGTCTCAGAACGCGTGGCCATTATAAGACCTGTGACAAAAACTATAGACATGATGCAGGT
AGATTCTGAAACTCAAGCCTGTGCAGAGAAGTCTACTCACCCCTTACCATAGCCCCAGAGGGTCCAGAC
CCAGGGGTTGCCAGCAGCAAGCTAGACAGTGGATTGCCAGACATCTGTTGTCTGTTCTATACCACA
CACCCCTGTACTCCAAGGAAATTACTCTTACTGTACTTCAAGGACCCCTGAAAGACCTCCGTATGACAAAC
TTCAGGACCCACGACTGCTGAAGAGGATGGGCATGTAGGTCAAAGGAGGAATATCCTTGGATCCACAACCC
CGAGCCCCAGCATCCTGGAGCAACACCTCTACGGGCGAGCCGGCTTCCGTCGTTACCAGGACCTGAGCC
ATATACAGCAGCCCGCTGTTGTAGTGGCTGTGAGCAGCCACAAACCTCCGTCGGGGGGAACCTCCAGGT
CCAGTCCCGAGGCTCCACGTGTCAGAGCAAATGTATGACCCGGAAAGAGGAGCTGTCAAGGAGAGAGGCC
GGGTTTCAGTGAAGGGAGCAGGAGAGTGGTCCGAGACCCCATCACACCAGGAGGAACTTAGGGGGACA
AGAGGAGACTGGAGCAGGAGGACAGCAGTCCAAAGAAAAGAAAGCTTTA**TAGGAAAGCC**AGTGACATGGGCC
GCAGCCACAGCATATTGAAACTGAAGATGACAGCAGCTGTGGGACATCTAGATAAGCTTTTTGTAAGGAG
TTTGTGGTGTGTTGGAAACATGGAAATGCATCTTAAACACCTGAGCCTGTGTCATCTCAGTATTTTCTGTC
ATTTGCAAAAGCTTCAGAGGGCATTGGTATCCGTATAAATGCCTGAAGTGAGCAGACTGGAAATGTGTATCTGTC
CTTAGTCTTCTATAGACAAAGGAGGTCAGACTGGAGTGAATGTTGAAAGTGTAAATGTATATTGTATAGCAAAA
TAACAAAAATCCTTAAATT

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FIGURE 412

MRNGKTECYLSIQTQENFPANLNEVNCIVISSILVTTQRKLKAMSLLGSRNQLARAVLNPNPMDFCTKDLLTTSE
ERIIAYL RDF NED QKKAIETAYAMVKHSPSVAKICLIHGPPGTGSKTIVGLLYRLLTENQRKGHSDENSNAKIK
QNRVLVCAPSNAAVDELMKKIILEFKEKCKDKNPLGNCGDINLVRLGPEKSINSEVLKFSLDSQVNHRMKKELP
SHVQAMHKRKEFLDYQLDLSRQRALCRGGREIQRQELDENISKVSKERELASKIKEVQGRPQKTQSIIILESH
IICCTLSTSGGLLESAFRGQGGVPFSCVIVDEAGQSCEIETLTPLIHCRCNKLILVGDPKQLPPTVISMKAQEYGY
YDQSMMARFCRLLEENVEHNMISRLPILQLTVQYRMHPDICLFPNSNYVYNRNLKTNRQTEAIRCSSDWPFQPYLV
FDVGDGSERRDNDSYINVQEIKLVMEIIKLIKDKRDVSFRNIGIITHYKAQKTMIQKDLDEFDRKGPAEVDTV
DAFQGRQKDCVIVTCVRANSIQGSIGFLASLQRLNVTITRAKYSLFILGHRTLMEQHWNQLIQDAQKRGAIIK
TCDKNYRHDAVKILKLKPVLQRSLTHPPTIAPEGSRPQGGLPSSKLDGFAKTSVAASLYHTPSDSKEITLTVTS
KDPERPPVHDQLQDPRLLKRMGIEVKGGIFLWDPOPSSPQHPGATPPTGEPGFPVVHQDLISHIQQPAAVVAALSS
HKPPVRGEPPAASPEASTCQSKCDDPEELCHRREARAFSEGEQEKGSETHTRRNSRWDKRTLEQEDSSSKRK
KLL

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FIGURE 413A

GCGGCGCTGGTCGGTGGCGGAGGCTGAGGAGAAGGAGGAGCGGGCGTGGAGGCTCGCCGCCTAGGTACTGCT
 ATAACCAGAACATTGGTAGAAAAGGATTACTTGTGGGGCCCTTGTATAAAAGAGATGTGGGGGATTCTCG
 ACCTGCTAACAGAACCTGGACCTTTCTGAGGAGCCAAGAAGAAAGGTTGCTCCGGTGGAACAGGGATTATCC
 TCCTCCTCCCCTTAAGAGTCATGCTCAAGAGAGACACTCTGGCAACTTCTGGCAGAGATTCACTCCTTGA
 TTTCCAGGGGCATTGGGCTCTTGTCAAATGTAGAGGAGCATTCTTCAGCTATGGAGCTAGAGACGGACC
 GCATGGTACTATCGAGGAGGGAGGGACCTGGACATGATTTCAGGGGGAGATTTCTGCTCTGATTCCA
 GAGCAGAGATTTCATCACAGTGGACTTCAGGGTAGGGACATACATTCTGGGATTTGGGATAGAGAAGGACC
 ACCTATGGACTATAGGGTGAGATGGTACTTCTATGGATTATAGAGGTAGGGAGGCACCTCATATGAACTACAG
 AGACAGGGATGCTACGCTGGACTTCAGAGGTAGGGATGCTCCTCCATCTGACTTCAGGGCCGGGCACTTA
 TGATTTAGATTTAGAGGCCGGGATGGATCCCATGAGATTAGGGGAAGGGATTATCAGATTGGATTTTAG
 GGCCAGAGAACAGTCCCCTGTGATTTAGGAATAGAGATGTATCTGATTGGACTTAGAGACAAAGACGGAAC
 ACAAGTAGACTTAGAGGCCAGGTTCAAGGTACTACTGATCTAGACTTAGGGACAGGGATACGCCACATTCAA
 TTTCAGAGGTAGACACCGATCTAGGACTGATCAGGATTTAGGGCAGAGAGATGGATCTGTATGAAATTAA
 AGATAGGGAGATGCCCTGTGGATCCAATATTGGATTACATTGCCCTCACACAAGATAGAGAACATT
 TGGTATGAATGTGAACAGGGAGAGAACATCCACACATGACCATACGATAGAAAGGCCCTGCTTGGCATTGAGAA
 GGGAGAATTGAGCATTGAGAACACAAGAGAACACAAGGTGTAGCCTTGAACATGAGTCTCAGCAG
 CTTTCAGAACAGCCAAGTCAGTTCAAGACCAAGATAAGTCACAGCTCTGGACGTGAAGAGCAGAGTTCA
 TGCTGGCTGTTAAAGAAGAAGGCCGGTCTGGACTTCTGGCGGCAAGACACCATTACAGAACGATGGAGTA
 CCGTGATGTGGATCATAGGCTGCCAGGAAGCCAGATGTTGGCTATGCCAGAGCAAGTCTTCCAGAGGGCAA
 AACTGCCGAGATGCCAACGGGACCTCAGGATCAAGATTAGGACCGGCCAGTGAGGAGAAACCCAGCAG
 GCTTATTGATTAAGTGGGTACCTGAAGATGCCACAAAAGAGAGATTCTTAATGCTTTGGACTCCTGATGG
 CATGCCCTGAAAGAACCTGCAAGTGAAGGAGTATAACACAGGTTACGACTATGGCTATGCTCGTGAGTTTC
 ACTCTGGAAAGATGCCATCGGATGCAAGGAGCAACCAGGGAACTCTAATGATCCAGGACAAAGAACATT
 GGAGTATGTATCAAGCCTGGATTTGGTACTGCAAACGATGTAAGGAAACATTGGGGCACCAGTCTCCTG
 TTCATTCTGCAAGAACCCAAGAGAACGAGTGCAGAGGCCAGCAAGAACATTAAACCTACCCCTAGCCTCAGAAA
 ATCCATACCAGCACCATGGAAAAACAGCCCACCGCCCTAACAGACCAGCTGATAAGGAACCTGAACCCAGGAA
 GAGGGAAAGGCCAAGAGTCACGCTTAGGACATCAAAAGAGAACAGAGAACAGGATCTGCCCTCTCGAAG
 GGAAGGGCCAACCTCCGAAGAGACCGAGAGAGGGAGTCATGGCTGGAGAGAACGCCAGGATGGAGAGCAA
 AACTATCATGCTAACAGCTATCTGTTCCACACCACCTGAGGTGATAGTGGAGTGTGGAGCCCTATGTCCG
 CCTTACTACTGCCAACGTCGTATCATCAAGAACAGAACAGGCCCTATGGGCATACCTATGGCTTATTGACCT
 CGACTCCCAGCGGAAGCTCTCGTGGTGAAGATCTTACAGAACCTGATGCCCTTACGATTGATGGAA
 GATGGTAGCTGAAACCTGCCACTGGAAAACGAAGAACATTCTGGGGACCATTCTGACCACATGATTACTA
 TCAGGGTAAAAAAATTCCGAGATAGGAGGGAGGTGGCAGAAATTGACTGCTTCAAGATACAAATCGACA
 AGGACAACAGTCATCTGACTGCTACATATGATTCTGCTACTGGCTACTATTATGACCCCTGGCAGGAAC
 TTATTATGACCCCAATACCCAGCAAGAACGACTATGTGCCCAAGGATCTGGATTACCTGAGGAAGAACGATCAA
 GGAAAAAAACCCACCAGTCAGGAAAGTCAGTAGCAAGAACAGGAAATGTCTAAAGAGATGGCAAGGAGAAAA
 AGACAGAGGAGTGAAGGAGGTTCAAGAAAATGCCAGTGAAGGGAGGCCCTGCAGAACAGTCTTAAGAAC
 CCTGCCCTACTGTGAAGAACAGAGAGTCCCCCTCACCTAACAGTGGTAAACCCACTGATGCCCTTGGG
 TGAATATGGAGGAGACAGTGAATGAGGAGGAAGAACAGGAGAACAGACCCCTCCCCACAGCCCCCAG
 ACAGCCCCAGAACGAGAGGAGAACACCAGAACAGGAGAACAGAACAAACTCACTGACTGGAATAACTGGC
 TTGTCTGCTTGTGAGAACGGCAGTTCCAATAAGAACAGTCTGAGCAGGAGCTAGCCTATCTGGAAAGGAGAAC
 GCAAAACCTGGAAATCCACCGGAAGATAAAACAGTCAGGAGCTAGCCTATCTGGAAAGGAGAACGAGA
 GGGAAAGTTAAAGGAAGAGGAAATGATGCAAGGGAAAGCTCCAGTCTTGTACTCTCCAGAAAGGAAACGGAT
 TAAGTACTCCAGGGAAACTGACAGTGTGATCGTAAACTTGTGATAAAGAACAGATATGACACTAGCAGCAAAGGAG
 CTGTGTCCAACAGGCTACTGGCTGGAGGAAGGGACAGGCCCTGGGATATGCCATCCTGGATTGGCTTCTCAGA
 GGAGGCTGAAGGCCGGATGAGGGGCCAGTGTGGAGGCCCTCAGGAAGAACAGCAAAAGAACAGTCCAACGAGAC
 TTATCGAGATGCTGTTGAAGAGTCATGTTGCTCGATATAAGAACACTCGAT**TAA**AGAACAGGAGAACAGTCCATG
 GGATACAACCTCCCTTGTGTTGTCTCTCCTTTGTTACTGTTCTGCTAGAACCTTTAA

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FIGURE 413B

ATAAACTTTTTCAATGTGAAAAAAAAAAAAAAA

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FIGURE 414

MWGD SR PAN RT GP FRG SO EER FAP GW NR D Y P P P L K SH A Q ER H S G N F P GR D S L P F D F Q G H S G P P F A N V E E H S F S Y
GARD GPH GD Y RG GEG PG H D F RGG D F S S D F Q S RD S S Q L D F RGR D I H S G D F R D R E G P P M D Y RGG D G T S M D Y R G R E A
PHM NY R D R D A H A V D F R G R D A P P S D F R G R G T Y D L D F R G R D G S H A D F R G R D L S L D F R A R E Q S R S D F R N R D V S D L D F
RDK DGT QVD F RGR GSG TT D LDF RDR DTPH SDF RGR HRS RTD QDF RGR E M G S C M E F K D R E M P P V D P N I L D Y I Q P S T
QDREHSGMNVRREESTHDHTIERPAFGIQKGFEHSETREGETQGVAFEHESPADFQNSQSPVQDQDKSQLSGR
EEQSSDAGLFKEEGGLDFLGRQD TDYRSMEYRDVDHRLPGSQMF GY GQSKSFPEGKTARDAQRDLQDQDYRTGPS
EEKPSRLIRLSGV PEDATKEEILNAFRTPDGMPVKNLQLKEYNTGYDYGYVCVEFSLLEDAIGCMEANQGTLMIQ
DKEVTLEYVSSLDFWYCKRCKANIGGHRSSCSFCKNPREVTEAKQELITYPQPQKTSIPAPIEKQPNQPLRPADK
EPEPRKREEGQESRLGHQKREAERYLP PSRREGPTFRRDRERESWSGETRQDGESKTIMLKRIYRSTPPEVIVEV
LEPYVRLTTANVRIIKNRTGPMGHTYGFIDLD SHAEALRVVKILQNLDPFFS IDGK MVAVNLATGKRRNDSDGH S
DHMHYYQGKKYFRDRRGGRNSDWSSDTNRQGQSSSDCYIYDSATGYYYDPLAGTYYDPNTQQEVYVPQDPGLP
EEEEIKEKKPTS QGKSSSKEMSKRDGKEKKDRGVTRFQENASEGKAPAEDVFKKPLPPTVKKEESPPPKVVNP
LIGLLGEYGGDSDYEEEEEEEQTPPPQPRTAQPQKREEQTKKENEDKLTDWNKLACLLCRRQFPNKEVLIKHQ Q
LSDLHKQNLEIHRKIKLQSEQELAYLEREREGKF KGRGNDRREKLQSFDSPERKRIKYSRETDSRKLVKDID
TSSKGCGVQQATGWRKGTLGYGHPGLASSEEAEGRMRGP SVGASGRTSKRQSNETYRDAVRRVMFARYKELD

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FIGURE 415A

GACAGCCTCTGGGCCTCGGTGGTACAGTCCTGCACCTCGGCCAGCAGGTAACATTATGGATTT
 TCCAAGCTACCCAAAATACTCGATGAAGATAAAGAAAGCACATTGGTTATGTGCATGGGCTCTCAGGACCTGTG
 GTTACAGCCTGTGACATGGGGTGAGCCATGTATGAGCTGGTGGAGACTGGCACAGCGAATTGGTGGAGAG
 ATTATTGAGGGTGACATGGCTACTATTCAAGGTATGAAGAAACTCTGGTGTCTGGAGATCCT
 GTACTTCGCACTGGTAAACCCCTCTGTAGAGCTGGTCTGGCATTATGGGAGCCATTGGTATTCAA
 AGACCTTGCGGATATCAGCAGTCAGACCCAAAGCATCTACATCCCCAGAGGAGTAAACGTGTCTGCTCTAGC
 AGAGATATCAAATGGGACTTACACCTTGCAAAACCTACGGGTTGGTAGTCATATCACTGGCGGAGACATT
 GGAATTGTCAGTGAGAACTCGCTTATCAAACACAAAATCATGTTACCCCCACGAAACAGAGGAACGTAACTTAC
 ATTGCTCCACCTGGGATTATGATACCTCTGATGTTGAGCTGAAATTGAAGGTGAAAGGAGAAGTTC
 ACCATGGTCAAGTATGGCTGTACGTCAAGTTCGACCTGTCACTGAGAAGCTGCCAGCAATCATCCTCTGTTG
 ACTGGCCAGAGAGTCCTGATGCCCTTTCCGTGTCCAGGGAGGAACACTGCTATCCCTGGAGCCTTGGC
 TGTGGAAAGACAGTGTATCACAGTCTATCCAAGTATTCTAACAGTGTATCATCTATGAGGATGTGGT
 GAAAGAGGAAATGAGATGCTGAAGTCCTCCGGACTTCCCAGAGCTCACAAATGGAGGTTGATGGTAAGGTAGAG
 TCAATTATGAAGAGGACAGCTTGGTAGCCAATACCTCAAATGCTGTTGCTGCTAGAGAAGCCTCTATT
 ACTGGAATCACACTGTCAGAGTACTTCGTGACATGGCTATCATGTCAGTATGATGGCTGACTCTACCTCTAGA
 TGGGCTGAGGCCCTAGAGAAATCTCTGGCTGTTAGCTGAAATGCCAGATAGTGGATATCCAGCCTATCTT
 GGTGCCGCTGGCCTCGTTATGAACGAGCAGCAGGGTGAATGTCTGGAAATCCTGAAAGAGAAGGGAGT
 GTCAGCATTGTTAGGAGCAGTTCTCCACCTGGTGGTGAATTTCTGATCCAGTTACATGCCACTTGGTATC
 GTTCAGGTGTTCTGGGCTTAGATAAGAAACTAGCTCAACGATTCCTCTGTCATTGGCTCATCAGC
 TACAGCAAGTATATGCGTCCTGGATGAATACTATGACAACACTTCACAGAGTTCGTTCTGAGGACGAAA
 GCTAAGGAAATTCTGCAAGGAGAAGAACCTGGCAGAAATTGTACAGCTGTTGGAAAGGCTCTGGCAGAA
 ACAGATAAAATCACTCTGGAGGTAGCAAACATTATCAAAGATGATTCTACAAACAAAATGGATATACTCCTT
 GACAGGTTCTGCCATTCTACAAGACAGTAGGGATGCTGTCACATGATTGCTTTATGATATGGCTCGTAGA
 GCTGTTGAAACCCTGCCCAGAGTGACAATAAAATCACATGGTCATTATCGTAGCAGCACATGGGAGACATCCTC
 TATAAAACTTCCATGAAATTCAAGGATCCACTGAAAGATGGTGAGGCAAAGATCAAAGCGACTATGCACAA
 CTTCTGAAGACATGCAAGTCATTCCGTAGCCTGAAGATTTAGAAGCCTGAAAGATTACAACACTGTGATTCCT
 TTCTCAGCAAGCTCTATGTGTTATTTCTGAATTCTCATCTCAAACCCCTGCTTCTTATTGTCAGC
 TTTGAGACTAGTGCCTATGTGTTATTGTTCCCTGTTGGTAGGTCTTATATAAAACAAACATT
 TGTTCTAGTGTGAAGGGCCTCCCTTCCTTATCTGAAGTGGTAATATAGTAAATATACATTCTGGTTAC
 ACTACTGTAACCTGTATGTAGGGTGTGACCCCTTTGCTCTAGGTGTACCCCTTCCTCATCTTAAATTG
 TAAACAGGACTACTGCATGTACTCTTGCAGTGAATTGGAATGGAAGGCCAGGTTCTATAACTTTGAACA
 GGTACTTGTGAATGACTCAATTCTATTGTGGTAAGCTCATTGGCAGCTAGCATTGCAAAGGAATTGCTT
 TGCAGGAAATATTAAATTCAAAACATAATGATTAATGTCACATTGTCATCACTCCCCAGTATAATCA
 GGAATGTTGTGAGAAACCATTGGAACTATACTCTTTATTTTTATTTTTATTATT
 TGGGACGGAGTGTCCCTCTGTTGCCAGGCTGGAGTGCAATGGCGTGTACTGGCTCACTGCAGCCTCGCCT
 CCCGGGTTCAAGTGTGATTCTCTGCCAGCCTCCGAGTAGCTGGGATTACAGGCATGCTCACCAGGCCAGCT
 AATTGTTATTAGAAACGGGTTTCACCATTGGTCAGGCTGGTCTCGAACCTCAGGTGAT
 CGCCACCTCGGCCCTCCAAACTGCTGGGATTACAGCGTGGAGCCACCGCGCTGGCCAGGGACTATACTCTT
 TTAAAATAGACATTGTGGGCTCACACAATATGAAATAGTACCTCTAAAAAAGAGAAAAAAATCAGGC
 GGTCAAACCTAGAGCAACATTGTCTTAAAGCATAGTTATTCACTAGAAAAAAATTAAATATCAAGGACTAT
 TACATACCTCATTACTAGGAAGTCTTTAAAATGACACTAAAACAATCACTGAAACACTGTGATCCACATCACA
 CCCTGTTATTCTAAACATCTTGAAGCCTAAGCTCTGAGAATCATGTGGCAAGTGTGATGGCAGTAAA
 ATACCAAGAGAAGATGTTAGTAGCAATTAAAGGCTGTTGCACCTTAAGGACAGCTGGGCTGTAGTGT
 GGGGCCAGAGTGGCATTATGTTTACAAAATAATGACATATGTCACATGTTGCATGTTGTTGCTGTTGAA
 TTTTGAAACGCCAGTTGACCAATCATAGAAAGTATTACTCTTCTATGGTTTGGTAGTCAGGCTTAAGA
 GGTTCTCAGAATATCTATGCCACAGCAGCATACCAGTTCCATCTTAATAGGAATGAAATTAAATTGATCT
 ACTGATAACAGAATCTGGGTACATGAAAAAAATCATTTCGCTTTAAGTATATGTTAAAATAATAAT
 TTATGTGCTGCATATTGAGAAGCAACAGCTCTGAGAGCAACAGTTCCATTAAACTCTTGACCAATAGTGTGG

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FIGURE 415B

CACCGTTGCTTCCTTTGGGAAGAGGAAAGGGTGTGAACATGGCTAACATCTCAAATACCAAATTGTGA
TAGCATAAATAAAGTATTTATTTATGCCTCAGTATATTATTATTAAATTAGGTAATGCCTATCTCTTGGT
CTATTAAGGAAAGCAATCAGTAGAGAATTAGGATAGTTGTTAAATTCTGCAGATTACATGTTTAC
AGTGGCCTGCTATTGAGGAAAGGTATTCTCTATACAACTTGTTAACCTTGAGAACATTGACAGAAATTATG
CAATGGTTGTTGAGATAACGGACTTGATGGTGTGTTAACAGTTGCTTCCAAAGTGGCTACTCAAGAGGCC
CTAAGACTGGTAGAAATTAAAAGGATTCAAAAACITTCTATTCCCTTAAACCTACCAGCAAACTAGGATTG
TGATAGCAATGAATGGTATGATGAAGAAAGTTGACCAAATTGTTTTGTTGTTGTTGTTGAATTG
AAATCATTCTTATTCCCTTAAGAATGTTATGATGAGTGTGAAGATGCTAGCGAACCTATGCTCAGATATTCA
TCGTAAGTCTCCCTCACCTGTTACAGAGTTCAGATCGGTCACTGATAGTATGTATTCTTAGTAAGAATGTG
TTAAAATTACAATGATCTTTAAAAAGATGATGCAGTTCTGTATTGCTGTCTGGCCTAAGTGGAGC
CAATTAACAAAGTTCATATGTATTTCCAGTGTGAATCTCACACACTGTACTTGAAAATTCCCTCATCC
TGAATAACGAATAGAAGAGGCCATATATATTGCCTCCTATCCTGAGATTCACTACCTTATGTTAAAAGTTG
TGTATAATTGTTAAAATCTGTGAAAGAATAAAAGTGGATTAAATTTAAAAAAAAAAAAAA

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FIGURE 416

MDFSKLPKILDEDKESTFGYVHGVSGPVVTACDMAGAAMYELRVGHSELVGEIIRLEGDMATIQVYEETSGVSV
GDPVLRTGKPLSVELGPGIMGAIFDGIQRPLSDISSQTQSIYIPRGVNVSALSRDIKWDFTPCKNLRVGSHITGG
DIYGIVSENSLIHKIMLPPRNRTVTYIAPPNYDTSDVLELEFEGVKEKFTMVQVWPVRQVRPVTEKLPAH
PILTGQRVLDALFPCVQGGTTAIPGAFGCGKTVISQSLSKYSNSDVIYYVGCGERGNEMSEVLRDFPELTMEVDG
KVESIMKRTALVANTSNMPVAAREASIYTGITLSEYFRDMGYHVSMMADSTSRAEALREISGRLAEMPADSGYP
AYLGARLASFYERAGRVKCLGNPEREGSVSIVGAVSPPGGFSDPVTSATLGIVQFWGLDKKLAQRKHFPSVNW
LISYSKYMRALDEYYDKHTEFVPLRTKAKEILQEEEDLAEIVQLVGKASLAETDKITLEVAKLIKDDFLQQNGY
TPYDRFCFPFYKTVGMLSNMIAFYDMARRAVETTAQSDNKITWSIIREHMGDILYKLSSMFKDPLKDGEAKIKSD
YAQLLEDMQNAFRSLED

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FIGURE 417

CACGTCGGCTGCTGGGAAGATCTGGATTCTCGTTCAGGTACCCATCAGAAAAGCTAAGTTGCTGTATAGTGAG
GATCAGGAGATCTGATCCTGATTGCAGAACCTTCCCTGATTACAGAACTTGGATGATTCACAAAAGTTCATCT
TCATTGCAGATACTGCCTTCTTCTAGGTTGTATCTCCCACTTCACCCTCTAGACCATCCCAGAAGATCTAT
AAGATTCATCTGGAAATCACTAGGAGTTCTTGGAAAGGGAAAGAAGGAAGATTGTTGGTTGAATAAAAACAGG
GTTGAATGAGTTCCAGAAAGCAGGGTTCTCAACCTCGTGGACAGCAATCTGCAGAAGAAGAGAACTTCAAAAAAC
CAACTAGAAGCAACATGCAGAGAAGTAAATGAGAGGGGCCCTCAGGAAAGAAGACAGCTGGTCCACAGCAGA
AAAATCTGAACCAGCTCTCCAGGAAGATGGGTGGTCGCTCTGCAGAGAACCCCCCTCAGGATCCGTGAGGA
AGACCAGAAAGAACAGCAGAACAGACTCTGGAAACGGAGATGGTGGCAGTACCAAGCAGCACCTCAGCCCCCTC
GGAAGAAAAGGGCCGGCAGACCCCCTGTTAAAGAATAGAATGGAGGTTAAAGTGA
AGATTCTGAAGAATTAAACCATGGCTTGTGAGGACTGGGACTTAGTTACCAAGGCAGAACAGCAGCTGTTCAAC
TCCCTGCCAAGAAAAATGTAGATGCAATTCTGGAGGAGTATGCAAATTGCAAGAAATCGCAGGGAAATGTTGATA
ATAAGGAATATGCGGTTAATGAAGTTGGCAGGAATAAGAATATTCAATGTGATGTTGGCACTCAGCTGC
TCTACAAATTGAGAGGCCCTGAGTATGCTGAAATCCTCTGGCTCACCTGATGCTCAATGTCAGGTTATG
GAGCACACACACTGAGATTATTTGTAAGAATTGGAGCAATGTTGGCCTATACGCCCTGATGAGAAAAGCC
TTGCATTATTGTTGGCTATTGCTGATGTTCTAAATATCTGGCAAAGAATTCTGCATCTCTTACTGCCA
GTGATTACAAAGTGGCTCTGCTGAGTACCAACCGAAAGCCCTGTGAGCGTCTACAGACAGCTACCATTGT
CCTGTATCTGAAACACTTTGTTCTAGTCTTCTTGAAAATTGATGTTCTTAAATGTTAATGTATA
ACAGGGCTATGTTCAAGTTGTTTCCGTTCTGTTAAACAGAAAATAAAAGGAGTGTAAAGCTCCTTCTCA
TTCAAAGTTGCTACCGTGTATGCAAGTAATTAGAACAAAGAACATTCACTAGAACATTATTGCTTAGT
TGACAACATTGCTGAAATGCTGGTGGTCCTATCCCTTGACACTACACAATTCTAATATGTGTTAATGCTAT
GTGACAAAAGCCCTGATTCTAGTGCCTAAAGGTCAACTTAATGTATATACCTGAAAACCCATGCATTGTGCT
CTTTTTTTTATGGTGCTGAAAGTAAACAGCCATCCTCTGCAAGTCCATCTGTTGTTCTAGGCATTCT
ATCTTGCTCAAATTGTTGAAGGATGGTGATTTGTTCTGTTTGTATTGAGTCTAATGCACGTCTAAC
TGATAGAGGCAATGCATTATTGTTGAGCCACGGTTCTGAAAGTTGATATTAGAATTGTTAGCAGATC
TTAAATAAAATTGTTCTAAATTTC

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FIGURE 418

MSSRKQGSQPRGQQSAEEENFKPTRSNMQRSKMRGASSGKKTAGPQQKNLEPALPGRWGGRSAENPPSGSVRKT
RKNKQKTPGNGDGGSTSEAPQPPRKARADPTVESEEAFKNRMEVKVKIPEELKPWLVEDWDILVTRQKQLFQLP
AKKNVDAILEEYANCKKSQGNVDNKEYAVNEVVAGIKEYFNVMLGTQLLYKFERPQYAEILLAHPDAPMSQVYGA
PHLLRLFVRIGAMLAYTPLDEKSLALLLGYLHDFLKYLAKNSASLFTASDYKVASAЕYHRKAL

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FIGURE 419

GCGACCGAACGCGCGGTGGCAGCGTTCGCGGGGGCTCGAAGCGCTGCTCGGGCCGGCACTGCCCGCG
 GGAGGACGCGCCGCCGCCACCCAGCGCCGCCGCCCTCCAGCCGGCCGCCGCTCCAGGGAGCTTGAGCCGCTGCAGAAGGGAAATAAGAGAGATGCAG
 GGATTGTGAGGTTACGGCGCCCAGCTGAAGATGCAACTAGCCGGCTGAACCCGGATCGCTGACTTGTGGA
 ACCGGAGTGTCTGCACGGAGAGTGGTGGATGAGTTGAAGTTGCCTTCCGGGGCTATTTCACGCTGCCGAG
 AGGAATCCGAGAGGCAAGGCAATCACTCGTCTGCCATTGATTGGGATCGGGAGCTTTCTCCCTCT
 CTCTTCTTCCCGTCTGTTGCATGCAAGAAAATTACAGTCCGCTGCTGCCGCCCTGGGTGCGAGATAT
 TCAGCCCCGCTCTCTCCGTGCAATTGCAACCCAAAGATGAAAGACCGAAGGGAGAAAGTTAAAGAAATGCC
 CACATGCGCTGGATCAGTCCACGGCTGGGGAAAGGCATCCAGAGAAGGTGGAGCGGAGAGTTGAAGTCTTA
 CAGGCAGGAAGATGGCGACTGGAGCTGAAAGTGTGATTGGAAACTTGGTGATTCTGTGTTATTACAAT
 CCTCTGACCCAGGCAGGACACATGCAGGCCAAAAACGCTATTCTACCTGCTCAGCTGGCTCTGTCTCGC
 CCTTTGTTTATTCCGGAGGCTTGCAGTTAGGGCATCGAGGAGCCACAGCCGGAGAGAAGAACACAGCGGTAG
 GAATGGCTTGACCAACCCCAGTCCGGATCATTCTGGCCCCCTTCCCGAGCCTCTGCGCCCTTCGTTCTTG
 GGATCAATTGAAAACGAGGATTCCAGCGTGCACATTCCCCCGGAGCAGAGCAGATGCCAACTCCAGCATCTA
 CAAAGGCAAGAAGTGCCGATGGAGTCTGCTCGATTCAACCTTTGCAAGAAAAACGGCTCAAAGTCTACGT
 ATACCCACAGCAAAAGGGAGAAAATGCCGAAAGTTACCAAACATTCTAGGGCCATCGAGGGCTCCAGGTT
 CTACACCTCGGACCCCAGCCAGGCAGGCTGCTTGTGAGTCTGGATACTTAGACAGAGACCAGTGTCA
 TCAGTATGTGCACAATTGAGATCCAAGTGCAGAGTCTCCACTGTGGAACAATGGTAGGAATCATTIAATT
 TAATTATATTCCGGACTTGGCTGACTACACCGAGGAGCTGGGTTTGACATGGCCAGGCGATGCTGGCAA
 AGCCAGCATCAGTACTGAAAACCTCCGACCCAACTTGTGTTCTATTCCCTTTCTAAGGATCATCCCAG
 GACAGGAGGGAGAGGGGTTTGAAGTTCAACACCATTCCCTCTCAGGAAGTACATGCTGGTATTCAAGGG
 GAAGAGGTACCTGACAGGGATAGGATCAGACACCAGGAATGCCATTATCACGTCATAACGGGAGGACGTTG
 GCTCCTCACCACTGCAAGCATGGCAAAGACTGGCAAAGCACAAGGATTCTCGTGTGACAGAGACAACACC
 GTATGAGAAGTATGATTATGGAAATGCTGCACATGCCACTTCTGTCTGGTCTCGTGTGAGTCTCAGGA
 ATGGTCTCAGATTCTGGAGGTTGAGGCTTGCAGGCTGCCCTGTGATGCTCAGGAATGGATGGAGTTGCCATT
 CTCTGAAGTGTATTGAAACAGCTGCCGTACAGGCGATGAGAGATTGTTATTACAGATTCTCTTACAAT
 CAGGTCTATTCTACAGGATAAAATCTAGCACTTAGACAGCAGACACAATTCTGTGGAGGCTTATTCTC
 AGTTGAGAAGATTGTTAAACTACACTAGAGATTATTCAAGGACAGAAATTCAAGCACATATCAGTA
 AATATGGAACAAACATCTGGAGGATTGTTGACTACCACAGTATTCTATCTGGGAGATTCTTACTA
 CTATGCTATTAGTTAAAGCCCCCTCAAATTCACTGCACTCATCCATGCCGTGACCCCCCTGGTCTCTCA
 GTCCCAGCCAGTGTGAAGCTCTCGTGGCTGCAGCCAAGTCCAGTACTGTGCCAGATCATAGTTCTATGGAA
 TTGTGACAAGCCCCCTACCAGCCAACACCGCTGGCTGCCACTGCTGTGCTGTCGTGATTGAAGGAGAG
 CAAGGTTATGAGCAGCCGTTCTGCCCTACGACAACATCATCACAGACGCCGTGCTCAGCCTGACGAGGACAC
 GGTGCTTCAACAAACAGAGGTGGATTGCCCTACAGTGTGGCAGAGCTCCCTGAGAGGATTGTGGGTACCC
 CGCGCGCAGCCACTCTGGATAACTCTAACAGGAGCGTGGGAGACATCAAAGTGGACGAACGACTACTCC
 GGTGTTGACAGGAGCTGCTATTACCAAAATTACTACCTATACTCCATTACCTGCCAGCCAGCCTGAA
 GAACATGGTGGACCAATTGCCAATTGTGAGGACATTCTCATGAACTTCTGGTCTGCTGTGACAAAATTGCC
 TCCAATCAAAGTGCACCAAGAAGAAGCAGTATAAGGAGACAATGATGGGACAGACTTCTGGCTTCCGTTGG
 TGACCCCTGACCACTTGTGCCAGCGACAGAGCTGCAATGAATCGTTGCCAGCTGGTTGGCTACATGCC
 CCACACTCAGATGAGGCTCGACCCCGTCTTTAAAGACCAAGGTCTCATTTGAGGAAGAAATACCGAGACAT
 TGAGCGACTTTGAGGAATCCGGCTGAGTGGGGAGGGAGCAAGAAGGGATGGGGTCAAGCTGCTCTCT
 CCAGTGCAGATCCACTCATCAGCAGAGCCAGATTGTGCCAACTATCCAAAACTTAGATGAGCAGAA
 AAAAAGGCCAATGAGAACTCAACTCTGGCTCTGGACTGCACCAAGACTGCTCAAACATCACCTCA
 TTCTGTGCTCCAAGACTAGGTTGGTACAGTTAATTGAAACATTAAATAATTGAAAAA
 AAAA

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FIGURE 420

MQAKKRYFILLSAGSCLALLFYFGGLQFRASRSHSRREEHSGRNGLHHPSPDHFWRPFPEPLRPFVPWDQLENE
SSVHISPRQKRDANSSIYKGKKCRMESCFDFTLCKKNGFKVYVYPQQGEKIAESYQNILAIEGSRFYTSDPSQ
ACLFVLSLDTLDRDQLSPQYVHNLRSKVQSLHLWNNGRNHLIFNLYSGTWPDYTEDVGFDIGQAMLAKASISTEN
FRPNFDVSIPFSKDHPRGGERGFLKFNTIPPLRKYMLVFKGKRYLTGIGSDTRNALYHVHNGEDVVLLTTCKH
GKDQHKHDSDRCDRDNTEYEKYDREMLHNATFCLVPRGRRLGSFRFLEALQAACPVMMLSNGWELPFSEVINWN
QAAVIGDERLLLQIPSTIRSIHQDKILALRQQTQFLWEAYFSSVEKIVLTTLEITIQDRIFKHISRNSLIWNKHPG
GLFVLQPQSSYLGDFPYYYANLGLKPPSKFTAVIHAVTPLVSQSOPVLKLLVAAAKSQYCAQIIIVLWNCDKPLPA
KHRWPATAVPVVVIEGESKVMSRFPLPYDNIITDAVLSLDDETVLSTTEVDFAFTVWQSFPERIVGYPARSHFWD
NSKERWGYTSKWTDYSMVLTGAAYHKYYHYLPSASLKNMVDQLANCEDILMNFLVSAVTKLPIKVTQK
KQYKETMMGQTSRASRWADPDHFAQRQSCMNTFASWFGYMPYIHSQMRLDPVLFKDQVSI LRKKYRDIERL

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FIGURE 421A

TGAGCTGCGAGGCCGAGAGTCAGAACCTGGGGAGAGGGATGGTCTCTGCACGGGGGGAGCCGGAGGGAGCCGC
CGCCGCTGCCGACGCCACGCCGCAGCCGCCGCCGCCGCCGCCACCCGCTCCGGCCTGACGGTCTCG
TACGAAGCCGGCAGGGGGAGGCCAGCAGCGCGGTGCCGGCACGCCAGCATGGTCCGGAAACCAGGCAT
CTCTGGGTGGCAACTTACCCGAGAACGTGCGGGAGAGAGAACATCGAGCATTTCAAACGATATGCCCGCTG
GAAAGTGTAAAATTCTCCAAGAGGGATCTGAAGGAGGTGGCTGCCCTTGTGGATTGTGGACATCAA
AGTGCACAGAAAGCTACAACACTCGGTCAACAAAATGGGTGACAGAGACCTACGCACGGATTATAATGAACCAGGC
ACCATCCCAGTGCTGCTGGGATTGGATGATACAGTTCATAGCATCTGTAGTAGAGAGGTTCTGGGTC
AGAGGAGGTGGTGGAGGGCTGCTTATGGTCCCCCACCCTGACTTCATGCAGAGAACGGACCTATGAGGGAGA
CTTGATGGGCTTCAGATAACAGGGAGCGTCTATGAACATAGTGCCTATGGACACCATGAACGGGGACGGGA
GGATTGATCGGACAAGACATTACGATCAGGATTACTATAGAGATCCTCGAGAGCGGACTTACAACATGGGCTC
TATTACGCTTCTGGAGTCGAAGTCCAATCGTTGATGCTCATGACCCCCGATATGAACCTAGGGCTCGCAG
CAGTTACACTGCCAGTGTGGTACACAGGGATATCTACAGGGATGATATTACCCGGAGGTACGAGGCAGAAGG
CCAGAGCGGAATTACCAGCACAGCAGGAGTCGGTCACCACATTCACTCCAGTCTAGAAATCAGTCTCCAGAGA
CTGGCTAGCCAAGCATCTAGACCCACAAGGTCCCCTAGCGGCAGCGGTCTAGAAGTAGATCTCCAGTAGTGT
TCAATCAGCAGCAGCAGTAGTACCGAGCAGTGACAGCAGTGATTCCAGCAGTAGTCAAGTGTGATTCTCCAGCT
CGATCAGTTCAAGTCTGCAGCAGTCCCTGCACCCACTTCCAGTTGCTTCATCTCTGGAAAAAGATGAGCCCCGT
AAAAGTTTGGCATCAAGGTCCAGAACTTCCAGTACGCTCTACAGATAACAAGCCTAAAGATGGCCTTTCCAT
GAATTAAAGAAATTGGAAAAGTAACCTCAGTGCAGATACTGGAACTTCAGAAGAGAGGTATGGTCTGGTATT
TTCCGGCAGCAAGAGGCCAAGAAAAGCCTTGACTGCATCAAAAGGAAACTTTCTTGGCATGCAGATTGAA
GTAACAGCATGGATAGGTCCAGAAACAGAAAGTAAATGAATTTCGCCCCTTGGATGAAAGGATAGATGAATT
CACCCCAAAGCAACAAGAACTCTTTATTGGCACCTTGAAAAAAACCAACTTACCATGACCTTCGCAACATC
TTCCAGCGTTGGAGAAATTGTGGATTGACATTAAGAAAGTAAATGGAGTTCTCAGTATGCCTTCTGCAA
TACTGTGATATTGCTAGCGTTGTAAAGCTATTAGAAGATGGATGGGAATATCTTGGAAATAATCGCTCAAG
CTGGGTTTGGAAAAGAGCATGCCCTACAAACTGCCTGTGGCTAGATGGCTTCTCGAATGTGTCAGATCAGTAT
TTAACACGACATTCTGCCGATATGGGCTGTGGTAAAGGTGGTTGACCGCTTAAAGGCATGGCCTGGTT
CTCTACAATGAAATTGAATATGCACAAGCAGCTGAAAAGAGACCAAGGGAGGAAATCGTGGGAAATAAATT
AAGGTGGATTGCAAATGGAAAAGTCAGCTGGCTTTTATCACTGCATGGAGAAATCTGGCAAGACATCAGA
GACTTTATGAAATGTTAGCCGAAAGAAGAGAGGAACGAAGGGCATCCTACGACTATAACCAAGATCGTACATAT
TATGAGAGTGTGCAACTCCAGGCACTTATCCTGAGGATTCCAGCGGGACTATCCAGCTCGAGGGAGAGAGTT
TATTCAAGATGGAAACTTACCAAGGAGACTACTATGAATCACGATACTACGATGATCCTCGGGAAATACAGGGAT
TACAGGAATGATCCTTATGAACAAGATATTAGGAATATAGTTACAGGCCAAGGGAACGAGAAAAGAGAACGTGAA
AGATTGAGTCTGACCGGGACAGAGACCATGAGAGGGAGGCCATTGAAACGAAGTCAAAGTCTGTTCACTGCA
CGTCCACAGAGTCTGGAGCGCTCCCTCTAGGCCAGAGGGTTGCCAGTGTGATTCTGAGAGGAGGCTTACAGC
CGATCCTCAGACCGGAGTGGAAAGCTGTAGCTCAGTCTCCCTCCAAGATATGAGAAAAGTGGACAAGTCTCGTTG
GAGCGCTATACAAAAATGAAAAGACAGATAAAGAACGAACCTTGTATCCGGAGAGAGTGGAGAGAGAGACGC
TTAACACGGAAAGGAAAAGGACAAAAGTACGACAAGCAGAAAGCAGAAAGGAAAGGTTCACTCCCTAGT
TCTCAGTCTCAGAAACGGACCAAGAAAATGAGCGAGAGGCCAGGGCTGAAAAGCCCTGAGGAGTTGTAATAAACTG
AGCAGAGAGAAAGCTGACAAAGAGGAATAGCAGAAAAGGCCCTGAAACTCATGCCTTGCGTGGTTTGACTCGA
GTGAAAGAGAAAGGGAAAGGTATTGACCAACTCCTGTGGAAAAGTTGAAAGCCAAGCTTGATAATGACACT
GTCAAATCTCTGCCCTGGACCAAGAAACTCAGGTCTCTAGACGGAGCCTGCAAAATCTGACTTGTCTAAACTG
GAATCAGTTAGAATGAAAGTACCAAGGAAAAGGGCTTCAAGCCATGTTGAAGTGGTGGAGAACGAGGAG
CTTAAAGCCAGGAAGCACCTCAAGCTGAGCAGCTGAGATGGGTAAGTGTGTTGATCTGGAGAACGCTGGAA
GCCAGGAAAAGGCCTTGCAAGATCCAATTAAAAGCAGAAAAGCAGAAAGCAGGGTCAAGAAAAGCAGTCCA
GAGATGGAGGATGCTCGGTCTTCAAAAAGCAGCTGAGCAGTGTGCTCTAGAGAGGTATTCTGCTGAGGGAA
GGAGAGGCTGAAAGAAAGCCTGTGAGGAAAGGAAATTCTTAAAGAGAAATCTAAAAAAATCAAACGAGACTT
AATACTGTTGCCAGCCCCAAAGACTGTCAGGAGCTGCCAGTATTCTGTTGGGCTGGCTCAAGGCCAGCTCA
GACCTACAAGCAAGACTGGGAGAACTAGCAGGTGAATCTGTGGAAAATCAAGAACGATCAAACAAAAAGCCCATT
CCCTCAAAACCACAGCTAACAGCTGAGGTATTAGATGATCAAGGACCAGAGAGAGAACGTTAGGAAAAC

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FIGURE 421B

TATTGCAGTCTCGTGTGAAACACCTGAACGTAAATCAGGCCAAGAGAAAATCACATTCAAGTAAATACTGAAGAA
 AAAATTGGCATTGACATCGATCACACGCCAGAGTTACCGAAAACAAATGGAACAGAGTCGTAGGAAACAGCAGATG
 GAAATGGAAATAGCCAAGTCTGAGAAGTTGGCAGTCCTAAAAAGATGTAGATGAATATGAAAGACGTAGCCTC
 GTTCACCGAGGTAGGCAAACCCCTCAAGATGTCACTGATGACTCTCCTAGCAAAAAGAAAAGGTGGATCAT
 GTCGATTTGATATCTGCACCAAGCGAGAACCGAATTACAGAAGTTCACGCCAATCAGCGAAGATTCTGAAAGG
 ACTGGTGGTCTCCCAGTGTCCGACATGGTCTCCATGAAGATGAGGATCCCATAGGCTCCCTAGGCTACTG
 TCAGTAAAAGGTCTCTAAAGTAGATGAAAAGTCCTCCCTATTCTAACATAACAGTCAGGGAAGAGTCCTTA
 AAATTTAACCTTATGATTCTAGCAGGAGAGAACAGATGGCAGATATGCCAAAATAAAACTATCTGCTTGAAT
 TCTGAAGATGAACATAATGTTGGACTCTCAGATGAAACAGGATGCTGGCAGATTGATGTGAGTTCCCAAAC
 AGCATAATTAAAGAGAGATAGCCTTCGAAAAGGTCTGTACGAGATCTGGAACCTGGTGGAGGTGCCTCTGATTCT
 GACGAAGATGGTGAACACAAATCCCACCTCACCCAGAGCCTCTGCATTATATGAAAGTTCTGATTGTCTTTTA
 TTGAGGGACAGAGAACAGACAAGCTACGTGAGCGAGATGAAAGACTCTCTAGTTCTTAGAAAGGAACAAATTTAC
 TCTTTGCATTGGATAAGACAAATCACACCAGACACTAAAGCTTGTGAAAGAGCTAAATCCCTCTCTCATCT
 CGTGAAGAAAATTGGTCTTCTTGATTGGACTCCCGATTGCAAATTTCGAAACAAACAAAGATAAAAGAAAAG
 GTTGAECTGCTCCAAGACCTATTCCATCCTGGTACATGAAAAGAAAATTAGGACTGATTGAGGGAA
 ATGGATGATAAGAAAGAGGACCATAAAGAAGAAGAGCAAGAGAGGGCAGGAATTGTTGCTTCTGTTTACAC
 AGCTCAATCTTGAACAAGATTCCAAGCGATTGAGCATCTAGAGAGAAAAGAGGAAGATTCTGACTTCATTCT
 GGTAGGATCTATGGGAAGCAGACATCTGAGGGAGCAACAGCACAACGTGATTCCATTCAAGAACCACTGAGTCTG
 TTCCATAGCAGATTATGGAGCTCACACGGATGCAACAGAAAAGAAAAGACCAGAAACCCAAAGAGGTT
 GAGAAACAGGAAGATAACAGAGAACATCCCAAGACCCCCAGAATCTGCTCCTGAGAATAAGATTGAGAACTGAAA
 ACTCCACCTTCCGGTGGCCTCCAAGTGTACAGTCGAACTCTAGAATCAGCCCCATCAGCACTAGAGAACGACC
 ACTGGTGACAAAACGGTAGAGGGCGCTTGGTACAGAAGAGAAAGACTGTGGAGCCAGCTACCGTCTCAGAAGAA
 GCAAAGCCTGCATCTGAACCTGCTCCTGCCCTGTGGAACAGCTGGAACAAGTAGACCTGCCCCCAGGAGCAGAC
 CCCGATAAAAGAAGCTGCCATGATGCGTGGGTGTTGAGGAAGGTTCATCAGGTGACCAGCCGCTTATCTGGAT
 GCCAAGCCTCCAACCTCCGGGCGCTGTTTCCCAGGCAGAGAGCAACGTAGATCCAGAGCCCTGACAGTACCCAG
 CCACTTCAAAACCGCTCAGAAGTCTGAGGAAGCCAATGAGCAAAGGCCAAGGCGAAAAGCCAGACGCCACTGCA
 GATGAGCCTGATGCAAACCCAGAAAGCCAGCTGCTCCTGAGTCTCAGCCCCCAGCTCTGAAAGATTAGAGGTT
 GATCCTCCAGTTGCTGCAAAGGATAAAAGCAAACAAAGCAAGCGTTCAAAGACCCCTGTTAGGCAAGCTGCA
 GTGAGTATCGTGGAGAAGCCCGTCACAAGGAAGAGTGGAGAGGATAGACGGGAAAAGCTCAAGCGGTCAAATTCT
 CCTCGGGAGAAGCCACAGAAGCTTTGAAATTGAGATGGAGGGCAGAGAAGATTACAAGGACTGCTTCTAAAAAC
 TCTGCTGCAGACCTGAACATCCCACCAAGTTGCTCTCAGCCGAACAAGGCCGCGGAATGTAAGGAGCGTC
 TATGCAACCATGGGTGACCATGAAAACCGCTCTGTCAAAGAGCCGTTGAGCAACCAAGAGTGAACCAAG
 AGATTGGAGCGAGAGCTCAGGAGGCTGAGCGGTTCCCACCCCCCTCGGAGGGGAAGGCCCAAAGACACGC
 CGGCAGGCCGATGAAGAGGAGGAACCGAGGCCAGGAACCTGAGAAACACTCAAGCCACCTGAGGGATGGCG
 TCGCCAAGGTCCCAGAAAACGTGAGCTGGTGACCCCAAGGGAAAAGGGAAAATGAACCGAAGGTGGAT
 GCTACACGTCTGAGGCCACCACTGAGGTGGCCCCAATAGCGTGAAGAGAGCTCATGGAACCCAAGGCT
 GCTGAGGAGGAGGCAGGGAGTGAACAGAAAACGTGACAGAAAAGATGCTGGCACAGACAAAAACCCCCCTGAA
 GCCCCTGTTGAAGTTGAGAGAAAAACCGGCCCTGAAAAAAACTCCAAATCAAAGAGAGGAAGATCTGAAAC
 TCCAGGTTAGCAGTGGACAAATCTGCAAGTCTGAAAATGTTGATGCTGCTGTCAGTCCCAGGGGGCTGCA
 CAGGCAGGGAGAGGAATCTGGGTGGCAGTCTCCCTGAGAAAAGTGAGAGTCCCCAAAAGGAGGATGGT
 TTATCATCCCAGTTGAAAAGTGATCCAGTTGATCCAGACAAGGAACCAAGAGAAGAAGACGTGTC
 CCCTGAGGAAGGAATGGAGACAGATGAGGCTGATCTGGCATCCTGAAACTGAGGCTGCTACAGAATCTTCT
 AGGCCTCCAGTCAATGCTCTGACCCCTCAGCCGCCAACAGATAACCAAGGAAGCCAGAGGAAATAGCAGTGAA
 ACCTCACACTCAGTGCCAGAACCCAGTTAAAGAAGTGGAGTCACCTTGTGAAAGACAAAGGGCGC

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FIGURE 421C

CAGAAAACAACCGATCACGCCGCAAGCAGAACACAAACAAGAAAGTGGTGGCTCCTGTAGAGAGGCCATGTCCCC
GAATCCAACCAAGCTCAAGGTGAGAGTCCTGCTGCAAATGAGGGGACAACAGTACAGCACCCCGAAGCCCCACAG
GAAGAAAAGCAGAGTGAGAAACCCCATTCCACTCCTCAGTCAGTTCTGACCTAAGCAAGATTCCCTCC
ACAGAGAATTCTGCTCCAAGAAATCAGTGTGAGGAAAGGACTCCAACCAAAGCATCTGTGCCCCCAGACCTTCCC
CCACCTCCCCAGCCAGCACCGTGGATGAGGAGCCTCAAGCCAGGTTCAGGGTGCATTCCATCATTGAAAGTGC
CCGGTACCCCACCCAGCGATCCAAGCATCCCCATACCCACACTGCCCTCTGTAACTGCAGCAAAGCTCTCACCT
CCTGTCGCTCTGGGGGATCCCACACCAGAGCCCCCTACTAAGGTGACAGAGTGGATACAAGGAGGAGGAG
CCACGGGCTCAGTCTACTCCATCTCAGCTCTCCCCCAGACACAAAGGCTCTGATGTTGACACCAGCTCCAGC
ACCTGAGGAAGATTCTCATGGACCCAAGTATGTCCTGCCACAAGTGTCACTCCACAAGTGTCACTGAC
ATTGCAGAGCCTGTCAGTGTGCCCTTGCTACATGAGGCCCGCCCCGCCAGTTGACTCTAAAAGCCTTA
GAAGAAAAACAGCACCTCAGTGACAAACAACACTGAGATAACAAGCCTCGGAGGTGCTGTTAGCTGCTGACAAG
GAAAAGGTGGCTCAGTCATTGCTCCAAAATTACCTCTGTTATTAGCCGGATGCCGTCAAGCATTGACCTGGAA
AATTACAGAAGATAACCTTGGCAAACACAGCTCTCAAACCCCTCACTGGTCTGGTGAGCGCACTCACTGGCTG
GTGAACGTCTCCCTGGTCCCGGTGAATGCCCTGAAAGGCCCGTGAAGGGCTCAGTGACACACTGAAAAGTTG
GTGAGCACCCCTGCTGGGCCGTGAACGTCCTGAAAGGCCGTGAATGTTCTACGGGGCAGTGAAATGTTCTC
ACCACTCCAGTGAAACGCCACGGTGGCACAGTGAAATGCCGCCAGGCACAGTCAATGCCGTCGAGTGAGTG
AATGCCACAGCAAGTGCAGTGACCGTCACAGCGGTGCGGTTACTGCTGCATCTGGTGGTAAAGGCCACAACA
GGCACGGTGACAATGGCAGGGCAGTGATTGCCGTCAACAAAGTCAAACAGAGAGCGAGTGCTAATGAAAAC
AGTCGGTCCACCCAGGGTCCATGCCGTGATCGACGATCGTCCGGCAGACGCCGGCTCAGGGGCCGGCTGCGT
GTGAACACTCTGAAGGGTTGTGCTCTGAGTTACTCAGGGCAGAAAGACGAAGGCCACAGCGGATCAGCGCC
AAGATCAGCCAGATCCCCCGGCCAGTGCAATGGACATTGAAATTCAAGCAGTCAGTGCTCAAAGTCCCAGGTCAA
CCTGATCTGTACAGCATCGCAGCTCCATCCAAAGGCCCTCAAGCTCCTGCAAGGCTATGCGAACGTTG
CATTCCACGGTGGTACTGACGCCAGACATATAATGCCCTCTGTGATTCTGTAAGGCCGATAGGCC
TCCITGGAGAAGGCCGAGCCATTACCTCTCGTGTCCACGCCGTICACCCAGGGAGGCACAGTGAAAGTTCTC
ACCCAGGGGATCAACACACCCCTGTGCTGGTTACAACCAAGCTGGCTCCTCACCCCAAGCATTGTCACCACAAAC
AAGAAGCTGCTGACCCCGTCAACCTTAAATCGAGACCAAGGTCTCAGGCCAACCTGGGCTCACGCTC
ACGCCACCACCCCTCTGCTCTGCCAGCAAACCTGCTCACAGAAGTCACCATGTCCTCAGGGCCAGCATC
CCAGCAGATCGAACTGTCCTCATTGGCAGCTGCAAAGCTAGATGCTCATTCTCTGACCAAGTGGACCCGG
CCATCCTCATTCCAAGGGCAAGCCACCCAGCAGTACTGCATCTACGGCGCTCTCACCAACGCCACAGTCATG
CTGGCTGCAGGCATCCCAGTGCCCTAGTTCATCTCCAGCATCCACCCAGAGCAGTCGTGATCATGCCACCCAC
AGCATCACCCAGACTGTGTCCTGAGCCACCTCTCCAGGGCGAGGTGAGAATGAAACACTCCCACGCTGCCAGT
ATCACCTACAGCATCCGCCAGAAGCGCTTCACCTCTCTGGCTCCGCTGAGCCCCAGCAAATAGAGGTGAG
GCCCCACAGCGTGCCAGCACCCCGCAGCCAGCCCCAGCTGGTGTGCCCTGACTGGCTCCAGCACCCCTCCGAG
GAGGAAGTGCAATTATCACCTCTGCTCGCTCGAGCCACAGCCCCCTGTGAGTCAGAGGTACTAGTCATGCA
GAGTACCGACTGCACCCCTATACTGTGCCACGGATGTGAGGATCATGGTGCATCCACATGTGACGGCAGTCAGC
GAGCAGCCCAGGGCGGGATGGGTGGTGAAGGTGCCACAGCCAGCAAGGCCAGCTCAGAGCCAGGGAA
GCTGCCAACAGACCCAGATGCCAAAGCTGCCCCACCCCTGCCCGTCCCTGTCCTGTCCTCTGCCCCCTCC
GCCCTGCTCTGCCCTCATGGTGAGGCCGTATCTCACAGTTACCCCCAGTAACCAACTCCAGGGCTGCC
CTGACCCCTCTGGTGGTGAACCATGGGTGAGATTGTCACTCCAGCAGGGAGCTGTTCAAGAGTACCG
TACGGCGACATCCGACCTACCAACCCCGGCCAGCTCACACACACTGAGTTCCGCCGCTCCCTGTTGGC
CTGCCTCCGGACCAAGACAGCTGCTCAGGGCCCTCCTCTGAAGGTGAGCCCTGCAAGCTCCTCAGCCTGTC
CAGTCCACACAGCTGCCAGCCTGCACCCCTGCCGCCCTCCAGCTCGTCAAGCCGGCAGCCACCAAGC
AGCAAGATGCCCAAGTGTCCCAGGAGGCAAAGGGACCCAGACGGGAGTAGAGCAGCAGCTGCCCTCCAGCTGG
CTGCAAACAGGCCACCTGAGCCTCACACCCAGGTTCAGAGGGCACAAGCAGAAACAGGCCGACTTCTCCCC
TCCCTGTCATGTCCTGAGCCTGACCTCCAGTCAGACTCTCTCCACTCAGACTGCCCTAAACAGCCGTTG
TTGTCCCAACAACTCTGGCCCCAGCACCCACAGGACTGGTTCTGCCACACACTGAAATTCCAGCCAGCCCC
AAACAAGATTCTCTCCACACCTGACTTCCAGAGACCCGTGGATATGGTTCAACTCTGAAAGAAGTACCCATC
GTGTGGCAGGGCCTGCTGCCCTCAAGAATGACACAGCTGCTGCAAGCTCCACTCGTCTCTGGCAACAAACGTC

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FIGURE 421D

CTGGCCCATCGGTCCCTGCCCTTCTGAAGGAGGGCCCCACTAAGGATGCCAGAGGATGCCGGCTGGAGGCA
ACGCAGCTGGAAGGGGTGCCGAAGGATGACGGTGGAGACAGATTACTGTCTGCTGGCTGCCCTGTGGC
CGTGACCAAGAGGATGTTGAGCCAGACCGAGTCCCTCAAGGCTGCCATCACTTACCTGCAGGCCAAGCAG
GCCGCAGGGATCATCACGTTCCAACCCCTGGCTCCAATCAGCCTGCCACGTGCTGCAGATCTCCGCCCTGT
GAGTTCTGAGAGTCACCTGCTCCGCTGGCCCTGACCTCCTGCCAGCATCTCCAACATCTCTCCCCACCTC
ATGATTGTATTGCTCCGTGAGCCACTGAGTGGTTATCACCTCAGTGAATCTCCAGGGCTCTGCAGTAAA
AACAAAGGACAACCCAGCCAAGCAGAGGAAGAAGCTGCCAGAGGGACAGACTCCACTGCCAGACGCCAGCGT
TTGCTGTCCTGCCGCCGGCTCAGTCGCCAGACTCCCTCTAGGAGTGGTGCCTACCTGTATGTTACATAA
TGCTTAGCCAAGGACACATCACCAACCCATGGACTCGCAGACACCGGGCTGGTTCTCTCCCTTTTG
GAGAAAAGGAACAGGGCAGTGAATGAAAATTTTGTGTTGTTTAAGAAACAAGAAAACAGAACTGCCT
TTGCACTAAATTAGTGAATTGGACTTTGCCAGTGAAGACAGGCTGTGACACTGGATGTCTGGTGTGTA
GACACACATTGCAGACTCTAACGCAGGAAGGACTCAAACCTCTGCTGAGACCTGGGTCAGGAACATTCA
TTGGTTTTTTGTCCACCCCCATCTCCCTGCTCATTTGGATGCGTCACCTTAATTCTCTGCTGCCACCGTCT
TTGATTCACCGGGATGTACAGTTACAGTTGAAGAGCAAACAGAAAGGTTCTCTGGTGGATATGCAGAACT
TGGGATGTGTATATAAATATAAATATAAATATAAATATAAATACTGACTAAAAAATCAAATCCCCCGA
CATACGTTTTTTAATCTGCCCCAAATGTGTTTCAGAGGAAATCTTATTTCATATTGAGACTTGTATTG
CCCACTCATTGTATAAGTGCCTCGGTACAGCACGGTCTGCTCCGCGATGTGGAAGTGTACACCGCACC
TGTACAAAAAGACTGGCTAACCCCTCTCTTACCTGATCTTCCCCAACCTCTAACACTTATTAA
ATGAAACTGTTTCTCAGCGCAGTTGTTGTTGTCATTGGATTACAAACTTATTAAAAAATATAAAC
AC

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FIGURE 422

MVRETRHLWGNLPEENVREEKIIIEHFKRYGRVESVKILPKRGSEGGVAAFVDFVDIKAQKAHNSVNKGDRDLR
TDYNEPGTIPSAARGLDDTVSIASRSREVSGFRGGGGPAYGPPPSLHAREGRYERRLDGASDNRERAYEH SAYG
HHERGTGGFDRTRHYDQDYRDPERTLQHGLYYASRSRSPNRFDAHDPRYEPRAREQFTLPSVVHRDIYRDDIT
REVRGRPERNYQHSRSRSPHSSQSQRNLASQASRPTRSPSGSGSRSSSDSISSSSTSDSSDSSS
SSDDSPARSVQSAAVPAPTSQLSSLEKDEPRKSGIKVQNLPVIRSTDTSLKDGLFHEFKFGKVTSVQIHTSE
ERYGLVFRQQEDQEKA LTA SKGKLFFGMQIEVTAWIGPETESENEFRPLDERIDEFHPKATRTLFIGNLEKTT
YHDLRNIFQRFGEIVDIDIKKVN GVPQYAFLQYCDIASVCKAIKKMDGEYLGNRNLKLGFGKSMPTNCVWL DGLS
SNVSDQYLTRHFCRYGPVVKVFDRLKGMALVLYNEIEYAQA AVKETKGRKIGGNKIKVDFANRESQLAFYH CME
KSGQDIRDFYEMLAERREERRASYDYNQDRTYYESVRTPGTYPEDSRRDYPARGREFYSEWE TYQGDYYESRYD
DPREYRDYRNDPYEQDIREYSYRQ RERERERFESDRDRDHERRPIERSQSPVHLRRPQSPGASP SQAERLP SD
SERRLYSRSSDRSGCSSLSPPRYEKLDKSRLERYTKNEKTDKERTFDPERVERERRLIRKEV EKD KTDK QKR K
GKVHSPSSQSSETDQENEREQSP EKPRSCN KLSREKADKEGI AKNRLELMPCVVLTRVKEEGKV IDHTPVEKL
AKLDNDTVKSSALDQKLQVSQTEPAKSDLSKLESVRMKVPKEKG LSSH VEV VKEGR LKARKHLKPEQ PADGV SA
VDLEKLEAR KRRFADS NLKAEKQKPEV KKSSPEMEDARVLSKKQPDVS SREVILLREGEAERKPVRKEILKRESK
KIKLDRLNTVASPKDCQEL ASISVGSGSRPSSDLQARLGE LAGESVENQEVQSKKPIPSK PQLKQLQV LDQGPE
REDVRKNYCSLRDETPERKSGQEKSHSVNTEKIGIDIDHTQSYRKQMEQSRRKQQM MEMEIAKSEKFGSPKKDVD
EYERRSLVHEVGKPPQDV TDSPPSKKKRMDHVD FDI CTKRERN YRSSRQ ISED SERTGGSP SVRHGSFHE EDP
IGSPRLLSVKGSPKVDEKVL PYNSITVREESLKFN PYDSSR E QMAKIKL SVLN SEDEL NRWD SQM QDAGR
FDVSFPNSIIKRD SLR KRS VRD LEPGEVPSD SDEDGEHKSHSPRASAL YESSRLSF LL RDREDKL RER DERLSS
LERNKFYSFALDKTITPDTK ALLERAKS LSSS REEN WSFL DWD SRF ANFRNN KDK EKV D SAPR PI PSW YM KKKKI
RTDSEGKMDKKEDHKEEEQERQELFASRFLHSSIFEQD SKRLQH LERKEE DSD FISGRIY GKQTSEGAN STTD S
IQEPVVLFH SRF MELTRM QQKEKEKDQKPKE VEKQEDTENHPKTPESAPENKDSELKTPPSVGPPS VTVT LESA
PSALEKTGDKTVEAPLVTEEKTVEPATVSEEAKPASEPAPAPVEQLEQVDLPPGADPDKEAMMPAGVEEGSSG
DQPPYLD AKPPTPGASFSQAESNVDP EPD STQPLSKPAQKSEEANE PKAEKP DATADAEPDANQKAEAAPE S QPP
ASEDLEVDPVVAAKDKKPNKSKRSKTPVQAAAVSIVEKPVTRKSERIDREKLKRSNSPRGEAQKLLELKMEA EKI
TRTASKNSAADLEHPEPSLPLSRTRRRNVR SYATMGDH ENRSPVKEPVEQPRVTRKRLERELQEA AVPTT PRR
GRPPKTRRADEEEENEAK EPAETLK PPEGWRS PRSQ KTAAGGGPQGKKG

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FIGURE 423

GATGGCGGGGAGCGGCGTCCGCCAAGCTACTTCTACCGCCAGCACCTCGTGAAGCCCATTTCAGTCGGGACAT
GAACGAGGCCAACGGAGGGTGCAGCTTACCGCCCTGGTATCGGGAGGTGCCAACACTGTGCACCAATT
CCAGCTGGACATCACTGTAAAATGGGACGGGATAAAAGTCCGAGAAATGTTATGAAGAATGCCATGTCACAGA
CCCCAGGGTGGTGTCTCTGGTCACTTAAGGGAAAGATCGAAGTGGAAAGAAACAATTAAAGTATGGAAGCAGCG
GACACATGTTATGCGGTCTTCCATGAAACAGAACAGCGCCAAGGCCAAGGATTTCTATCCAAGTTCTATGTTGG
CCACGATCCATGAAGTCATTCACTGGAAAGATGCACGTTGATACTATTTAGAGCACAAATAAACTCACTATACA
ATGGTCACTTGTGATAGAATTCCATTGATGAACCAATTCTGCAGCCTCTTTGCCTGAGCAAGTGGGACCT
TGGTATAACACATCACCTGTTCTTCCCTTCTTGAATGTGGTGTGCTGTAATTGGATTGAATTATTTTC
TCAGAGCCTTGCATGTCAGTAAACAGGAAGGAAGGAGGCCATCTGTTAAAAATTGTGACATTGGCATGAGGCT
GGACGACTTGTAAATGTAGTTGTTCTATAGCCCTATGATTAGACACTTCAGTGTCAAGGGCACAGATTATCTAA
AATTAGCCAGCTTCCCTGTCAGGGATCAGGGCAGCACTAACAGGCAGAAAGTAGAGCTGTCAAGATGGCTAG
TTTCCTGGTCTGAAGAAAATGGATGTCAAAGGCTGGCTCCGCTACTTGTAAACAAGCTCCAGGCCCTAAA
ATGAAATTAACCTCTACTCAGGCACCCCTGCTTAGGTGCACAGCTGTTCAATATACACAGAGAACAGAAATATTCT
CTACTGTCTTGGAAACCCTGGTGTACCTCTCAGTGGCAGAATAAACATCAACACAGGTTCAAGAACTGAAAAAA
AAAAAAAAAAAAAA

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FIGURE 424

MAGSGVRQATSTASTFVKPIFS RDMNEAKRRVRELYRAWYREV PNTVHQ FQOLDITVKMGRDKVREMFMKNAHVTD
PRVV DLLVIKGKIEEETIKVWKQRTHVMRFFHETEAPRKDFLSKFYVGHDP

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FIGURE 425

GCGTCCCCCACACCAACAGACCCGCGCCGCCGACGACCCAGCAGCCGCCAT**CGTCTGCTCCGAGGTGTGTTGTA**
GTTGCTGCTAAGCGAACGCCCTTGGAGCTTACGGAGGCCTCTGAAAGACTTCAGTCTACTGCTACTGACTTGCTGAA
TTTGTGCCAAGGCTGCCCTGTCTGCTGGCAAAGCTCACCTGAAACAGTTGACAGTGTGATTATGGCAATGTC
CTGCAGAGTTCTCAGATGCTATATATTGGCAAGGCATGTTGGTTGCGTGTGGAATCCAAAGGAGACCCCA
GCTCTCACGATTAATAGGCTCTGTGGTCTGGTTTCAGTCATTGTGAATGGATGTCAAGGAAATTGTTAAA
GAAGCTGAAGTTGTTATGTGGAGGAACCGAAAGCATGAGCCAAGCTCCCTACTGTGTCAAGAAATTGCGTTT
GGAACCAAGCTGGATCAGATATCAAGCTGGAAGATTCTTATGGGTATCATTAAACAGATCAGCATGTCAGCTC
CCCAGGCAATGACTGCAGAGAATCTTACTGTAAAACACAAAAATAAGCAGAGAAGAATGTGACAATATGCCCTG
CAGTCACAGCAGAGATGAAAGCTGCTAATGATGCTGGCTACTTTAATGATGAAATGGCACCAATTGAAGTGAAG
ACAAAGAAAGGAAACAGACAATGCAGGTAGACGAGCATGCTCGGCCCCAACACCCTGGAACAGTTACAGAAA
CTTCCTCCAGTATTCAAGAAAGATGGAACTGTTACTGCAGGGAATGCATGGGTGAGCTGATGGTCTGGAGCT
GTTATCATAGCTAGTGAAGATGCTGTTAAGAAACATAACTTCACACCAGGCAAGAATTGTTGGCTACTTGTAA
TCTGGATGTGATCCCTCATGGGTATTGGTCTGCTCCCTGCTATCAGTGGGCAGTGAAGAAAGCAGGACTG
AGTCTTAAGGACATGGATTGGTAGAGGGTAATGAAGCTTGTCTCCCTGACTTGGCTGTTGAGAGGAGTTG
GATCTTGACATAAGTAAAACCAATGTGAATGGAGGAGCCATGCTTGGTCACCCACTGGAGGATCTGGATCA
AGAATTACTGCACACCTGGTACGAATTAAGGCGTCGAGGTGGAAAATGCCGTTGGATCAGCTTGCAATTGGA
GGTGGCCAAGGTATTGCTGTCATCATTCAGAGCACAGCC**TGA**AGAGACCAAGTGAAGCTGACCCATCCTTA
CTCTACTTGGCCAGGCCACAGTAAAACAAGTGACCTTCAGAGCAGCTGCCACAATGCCATGCCCTGCCATTGA
AACAGTGATTAAGTTGATCAAGCCATGGTGACACAAAATGCATTGATCATGAATAGGAGCCATGCTAGAAGT
ACATTCTCTCAGATTGAAACCAGTGAATATGATGTATTCTGAGCTAAACTCAACTATAGAAGACATTAAAAG
AAATCGTATTCTGCCAAGTAACCACCTCTGCCCTAGATAATATGATTATAAGGAAATCAAATAATGTTGC
CTTAACITC

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FIGURE 426

MRILLRGVFVVAAKRTPFGAYGGLLKDFTATDLSEFAAKAALSAGKVSPETVDSVIMGNVLQSSSDAIYLARHVGL
RVGIPKETPALTINRLCGSGFQSIVNGCQEICVKEAEVVLCGGTESMSQAPYCVRNVRFGTKLGSDIKLEDSLWV
SLTDQHVQLPMAMTAENLTVKHKISREECDKYALQSQRWKAANDAGYFNDEMAPIEVKTKKGKQTMQVDEHARP
QTTLLEQLQKLPPVFKKDGTVTAGNASGVADGAGAVIIASEDAVKKHNFTPLARIVGYFVSGCDPSIMGIGPVPAI
SGALKKAGLSLKDMDLVEVNEAFAPQYLAVERSLDLISKTNVNGGIALGHPLGGSGSRITAHLVHELRGGK
YAVGSACIGGGQGIAVIIQSTA

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FIGURE 427

CGCGCCAGGGCAGGGCACCCGCGCCGGTCCGGCGCTGGGCCTGCCCGAATCCCGCCCTGCGCCCCGCG
CCC CGCCCTGCGGGCATGGAGCGCCGCGCCAGGGACGACGCTGTGAGACCCCGAGCGGCCCTCGGGGA
CC **AT** GGGAGCGATCGGGCCCAGGGCGAGGGGCCAGGGACTTCGGCGGGACTCAAGTACAACCTCCC
GGCACGAGAAAGTGAATGGCTTGGAGGAAGGCCTGGAGTTCTGCCAGTCACAAACGTCAAGAAGGTGGAAAAGC
ATGGCCGGGCGCTGGTGGCTGGCAGCCGTGCTGATCGGCCTCTTGGCTTGCTGGGATCGGCTTCC
TGGTGTGGCATTGCACTACCGGGACGTGCGTGTCCAGAAGGTCTCAATGGCTACATGAGGATCACAAATGAGA
ATTTGTGGATGCCTACGAGAACTCCAACCTCACTGAGTTGTAAGCCTGGCCAGCAAGGTGAAGGACGCGCTGA
AGCTGCTGTACAGCGGAGTCCCATTCTGGGCCCTACCACAAGGAGTCGGCTGTGACGGCTTCAGCGAGGGCA
GCGTCATCGCTACTACTGGCTGAGTCAGCATCCCGAGCACCTGGTGGAGGAGGCCAGCGCTCATGGCCG
AGGAGCGCTAGTCATGCTGCCCCCGGGCGCTCCCTGAAGTCCTTGTGGTCACCTCAGTGGTGGCTTCC
CCACGGACTCCAAAACAGTACAGAGGACCCAGGACAACAGCTGCAGCTTGGCTGCACGCCCGGGTGGAGC
TGATGCGCTTACCCACGCCGGCTTCCCTGACAGGCCCTACCCCGCTCATGCCGCTGCCAGTGGCCCTGCGGG
GGGACGCCGACTCAGTGTGAGCCTCACCTCCGAGCTTGACCTTGCCTGCGACGAGCGGGAGCGAC
TGGTGAAGGTGTACAACACCCCTGAGCCCCATGGAGCCCCACGCCCTGGTGCAGTTGTTGACCTACCCCTCC
CCTACAACCTGACCTCCACTCCTCCAGAACGCTCTGCTCATCACACTGATAACCAACACTGAGCGGGCATC
CCGGCTTGAAGGCCACCTTCCAGCTGCCTAGGATGAGCAGCTGTGGAGGCCCTACGTAAGGCCAGGGGA
CATTCAACAGCCCTACTACCCAGGCCACTACCCACCCAAACATTGACTGCACATGGAACATTGAGGTGCCAACA
ACCAGCATGTGAAGGTGCGCTCAAATTCTCACCTGCTGGAGGCCGGCTGCCTGCCAACCTGCCAAGG
ACTACGTGGAGATCAATGGGGAGAAATACTGCGAGAGAGGGTCCAGTTCGTCGTACCAGCAACAGAACAGA
TCACAGTTGCTTCACTCAGATCAGTCCCTACACCGACACCGGCTTCTAGCTGAATACCTCTACGACTCCA
GTGACCATGCCGGGGCAGTTCACGTGCCGACGGGGGGTGTATCCGAAGGAGCTGCCGTGTGATGGCTGG
CCGACTGCACCGACCACAGCGATGAGCTCAACTGCAGTTGCCAGGCCGGCACCOAGTTACGTGCAAGAACAGT
TCTGCAAGCCCTTCTGGGTCTGCGACAGTGTGAACGACTGCCAGAACAGCGACGAGCAGGGGTGAGTT
GTCCGGCCAGACCTCAGGTGTTCCAATGGGAAGTGCCTCTGAAAAGCCAGCAGTGAATGGGAAGGACGACT
GTGGGACGGTCCGACGAGGCCCTGCCAACGGTGAACGTCGTACTTGTACCAAACACACCTACCGCTGCC
TCAATGGCTCTGCTTGAGCAAGGGCAACCCCTGAGTGTGACGGGAAGGAGGACTGTAGCGACGGCTCAGATGAGA
AGGACTGCGACTGTGGCTGCCGTATTACGAGACAGGCTCGTGTGTTGGGGCACGGATGCGGATGAGGGCG
AGTGGCCCTGGCAGGTAAAGCTGCATGCTCTGGCCAGGGCACATCTGCCGTCTCCCTCATCTCTCCAACT
GGCTGGCTCTGCCGCACACTGCTACATCGATGACAGAGGATTCAAGGTACTCAGACCCACCGCAGTGGACGCC
TCCTGGCTTGACGACCAGAGCCAGCGCAGGCCCTGGGTGCAAGGAGCGCAGGCTCAAGCGCATCATCTCCC
ACCCCTTCAATGACTTACCTCGACTATGACATGCCGTGCTGGAGCTGGAGAAACCCAGCAGAGTACAGCT
CCATGGTGCAGGCCATCTGCCCTGCCAACGGTGAACGCTGCCAGGCCATCTGGTACAGGCC
GGGGACACACCCAGTATGGAGGCAGTGGCGCTGATCTGCAAAAGGTGAGATCCGCTCATCAACCAGACCA
CCTGCAGAACCTCTGCCAGCAGATCACGCCGCATGATGTGGCTTCCCTCAGGGCGGTGAGCT
CCTGCCAGGTGATTCCGGGGACCCCTGTCAGAGGACAAGCCAGGCGTGTACACAAGGCTCCCTGTTGGACTGGATCA
AAGAGAACACTGGGTAT**AGGGCCGGGCCACCCAAATGTGTACACCTGCCAGGCCACCCATGTCACCCAG**
TGTGCACGCCCTGCAAGCTGGAGACTGGACCGCTGACTGCACCGCAGGCCAGAACACATACACTGTGAACCTCAATC
TCCAGGGCTCCAAATCTGCCAGAAAACCTCTGCCCTGCCAGGCCATCTGGTACAGGCC
GGACACTGGTGGTTCTACTGACCCAACTGGGGCAAGGTTGAAGACACAGCCTCCCCGCCAGCCCCAAGCTG
GGCGAGGCCTGTTGTATCTGCCCTGCCAGGCCAGGCCAGGGAGCTTGGAGCTGGAGCC
AGTGAAGGTGGTGGGCTGCCGGATCTGGCTGTGGGCCACGCTCTGAGGAAGGCCAGGCTCGGA
GGACCCCTGGAAAACAGACGGCTGAGACTGAAATTGTTTACAGCTCCAGGGTGGACTTCAGTGTGTATT
TGTGAAATGAGTAAAACATTATTCTTTAAAAA

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FIGURE 428

MGSDRARKGGGGPKDFGAGLKYNNSRHEKVNGLEEGVEFLPVNNVKKVEKHGPGRWVVLAAVLIGLLVLLGIGFL
VWHLQYRDVRVQKVFNGYMRITNENFDAYENSNSTEFVSLASKVKDALKLLYSGPFLGPYHKEAVTAFSEGS
VIAYYWSEFSIPQHLVEEAERVMAEERVVMLPPRARSLSKFVVTSVVAFPTDSKTVQRTQDNSCSFGLHARGVEL
MRFTTPGFPDSPYPYPAHARCQWALRGDADSVLSTFRSFDLASCDERGSDLVTYNTLSPMEPHALVQLCGTYPPS
YNLTFHSSQNVLITLITNTERRHPGEATFFQLPRMSSCGGRLRKAQGTFNSPYYPGHYPNNIDCTWNIEVPNN
QHVVKVRFKFFYLLEPGVPAGTCPKDVEINGEKYCGERSQFVVTTSNSNKITVRFHSDQSYTDTGFLAEYLSYDSS
DPCPGQFTCRTGRCIRKELRCDGWADCTDHSDENCSCLAGHQFTCKNFKCKPLFWVCDSVNDCGDNSDEQGCSC
PAQTFRCSNGKCLSksQQCNGKDDCGDGSDEASCPKVNVTCTKHTYRCLNGLCLSkgNPecDGKEDCSDGSDEK
DCDCGLRSFTRQARVVGTDADEGEWPWQVSLHALGQGHICGASLISPNSWLVSAAHCYIDDRGFYSDPTQWTAF
LGLHDQSQRSAAPGVQERRLKRIISHPFNDFTFDYDIALLEKPAEYSSMVRPICLPDASHVFPAGKAIWVTGW
GHTQYGGTGALILQKGEIRVINOTTCENLLPQQITPRMMCVGFLSGGVDSLQGDGGPLSSVEADGRIFQAGVVS
WGDGCAQRNKPVGYTRLPLFRDWIKENTGV

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FIGURE 429

TAGGAATTCAAGGTGAGGTAGATATTGAGAATAGGGGATTTTGATGTGCCTAAATTACCAAAGAT
TACTAATTATTCCCTTTGCCAAAATACTGCATCCAAGGTTCTAGTCCTGCTGTGGCTTTAGCCC
CACTGCTTGCAGTGTCCCTCCTTCACGGAGACCTATCTGAGGTACAGGATGGGCTGGCACCAAGATGATG
TCCCACACAGTCCCTCACCTCCGGCTCCACATGACAGAACCAATTACACTCAACCATGACCTCACCCCTCCT
TGGTTCTCCCTCGATCTGTGGCCCTTTGGATGATTCTTATCTAACAAACACAATCCGAAAGACTGAATTGA
ATATTTATACTAATGGTCATATCCTTATTGCTCAATGATCTAATTAAAGGGATCATTGCCACATTCTATGTTT
ATATTCACAATTGTTAGAAAACATCTCTGACCATATCAGTAGCTGTATCTTTATCAACTGCTTC
CCAGAGTCCTAAACAAATAGAAATTGGATTGAAAAGTTCAAGCATAAGGAGTTGAGTCAGTAAGGATGGGAT
AAAGGAGTCGAGATGATTCAATGAAAAGTATCACAAAAAGAGATTGATCAACAAGAGAAATAAAAAGCCCAAG
AGGAAGTGGTAGGGAAAGGAATTAAAGAACAGCAATAAGTAAACTCTTAAGTAACTCCAAAAGAAAATGGTAC
ATTTGCCAAAGACCACTTAACTTGAGAACATGGAAGAATTGCCTGATACTCTCTTGGGAAAAGAGTCCT
CCTCTTCCTCAAACCCAGTACACTCAGCCTCTGCCACCTTCCTGACTTGCCTCCTGACTTGCCTCTG
CACTACATTGAAACCTGAATTGAAAGAAAGTCTCCTTGAATAATTGGAGTTGTCTGAGAGGCAAATATAGCC
CCAAGAACATCACAAAGATTGAGGACCATGTAGGTCTTACGTAGCCAAATCCATAAATTAGTCTCACTTTGT
ATTTATCGTTCATATTAAACCTCTATCAAATGTTCATCATGATTGTATGATTTTATAACTATTTATT
CATTATTAGATTATTCTAAAATTGTTAATGGTAAATTCTAAACTGTGGAAACCACGTGAAGGTGTTATTA
ACTGTTCTCCAGATTGTACAAGTATTGGATGATTCTGAGTTACAGCTGTACAAATAGTGTGGAAAATAAA
CTTTTTAAAAAGA

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FIGURE 430

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FIGURE 431

CTGACTTGGCAGGACTGTGCAATTGTCAGAAGGCCGTGGGAGTGGGGCCAGTGCCTGCAGCCTGCCCTGCCTC
TCTCACAGGCCCTAGAGCATGCCAGGTGCAGAGCTCCACAGCTCTTCCAAAGGAGTAATCAGAGGGTGAG
AACGTGGAGCCTGGACAGGTGAAAGCACTGGATCTTCTGCCAGAAAGGGAAAGTTGACATTTATATC
CTAGAGGGAAGCGACAGCAGTGCCTCCCTGTGCTGAGGTACAGGAGCCATGTGGCTAGAAATCCTCCTCACTT
CAGTGCTGGCTTGCCATCTACTGGTCATCTCCGGACAAAGAGGAAACTTGCCACTGAAAGATGGTGTT
GGGGGCCAGGCACGGAGGTCCGCAGCCAGGGAGGACAGCAGCATCCGCCCTTCAAGGTGGAAACGTCAGATGAGG
AGATCCACGACTTACACCAGAGGATGATAAGTCCGTTACCCCCACCTTGGAGGACAGCTGCTTCACTATG
GCTTCAACTCCAACCTACCTGAAGAAAGTCATCTACTGGCGGAATGAATTGACTGGAAGAAGCAGGTGGAGA
TTCTCAACAGATAACCTCACTCAAGACTAAGATTGAAGGGCTGGACATCCACTCATCCACGTGAAGCCCCCCC
AGCTGCCCGCAGGCCATACCCGAAGCCCTGCTGATGGTGCACGGCTGGCCCGCTCTTCTACGAGTTTATA
AGATCATCCCACCTCTGACTGACCCCCAAGAACCATGGCTGAGCAGTGGAGCAGCTTTGAAGTCATCTGCCCTT
CCATCCCTGGCTATGGCTTCAGAGGCATCCTCCAAGAAGGGGTTCAACTCGTGGCCACCGCCAGGATCTTT
ACAAGCTGATGCTGGCCTGGGCTTCCAGGAATTCTACATTCAAGGAGGGACTGGGGTCCCTGATCTGCACTA
ATATGGCCCAGCTGGTGCCTGCCAGCCACGTGAAAGGCCCTGCACCTGAACATGGCTTGGTTAACGAACTTCTCTA
CCCTGACCCCTCCTCTGGGACAGCGTTCTGGGAGGTTCTTGGCTCACTGAGAGGGATGTGGAGCTGCTGTACC
CCGTCAAGGAGAAGGTATTCTACAGCCTGATGAGGGAGAGCGGCTACATGCACATCCAGTGCACCAAGCCTGACA
CCGTAGGCTCTGCTCTGAATGACTCTCTGTGGCTGGCTATATTCTAGAGAAGTTTCCACCTGGACCA
ATACGGAATTCCGATACTGGAGGATGGAGGCCTGGAAAGGAAGTCTCCCTGGACGACCTGCTGACCAACGTCA
TGCTCTACTGGACAAACAGGCACCATCATCTCCTCCAGCGCTTCTACAAGGAGAACCTGGGACAGGGCTGGATGA
CCCAGAACATGAGCGGATGAAGGTCTATGTGCCACTGGCTCTGCCTTCCCTTTGAGCTATTGCACACGC
CTGAAAAGTGGGTGAGGTTCAAGTACCCAAAGCTCATCTCTTACATGGTCGTGGGGCCACTTGC
CCTTGAGGAGCCGGAGCTGCTGCCAGGACATCCGAAGTCCCTGCTGGAGCGCATGACCCACCC
CTCTCCCCCGCCTGCCACCTCCCCCACAAGTGCCCTCCAGGCTTTCTGGGAAGATAACCCCTTCTGAGG
AATGAGTTGCCTCCGTCCCCATGCTGGGAGCCCACGCTCACCCCTCACCCCTCAAGCTACTCCCCA
ACCCCCAACTCCGTGTTAAGCAACATGGCTTGTGATAAAAGCAACTTACTCTA

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FIGURE 432

MWLEILLTSVLGFAIYWFISRDKEETLPLEDGWWGPGRSAAREDDSIRPKVETSDEEIHDLHQRIDKFRFTPPL
LEDSCFHGFNSNYLKKVISYWRNEFDWKKQVEILNRYPHFKTIEGLDIHFIHVKPQLPAGHTPKPLLVMVHGWP
PGSFYEFYKIIPLLTDPKNHGLSDEHVFEVICPSIPGYGFSSEASSKKGFNSVATARIFYKLMRLGFQEfyIQGG
DWGSЛИCTNMAQLVPSHVKGHLNMALVLSNFSTLTLLGQRFGRFLGLTERDVELLYPVKEKFVYSLMRESGYM
HIQCTKPDVTGSALNDSPVGLAAYILEKFSTWTNTEFRYLEDGGLERKFSLDDLTVMLYWTTGTIISQRFYK
ENLGQGWMTQKHERMKVYVPTGFSAFPFELLHTPEKWKRFKYPKLISYSYMRGGHAAFEPELLAQDIRKFLSVLERQ

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FIGURE 433

CGGCACGAGCGCCGCCGAGGATTCAAGCAGCCTCCCCCTTGAGCCCCCTCGCTTCCGACGTCCGTTCCCCCTG
CCCGCCTCTCCGCCACCGCCGCCCTCCGAGGCCGTTCCACCGAGGAAAAGGAATCGTATCGTATG

TCCGCTATCCAGAACCTCCACTTTGACCCCTTGCTGATGCAAGTAAGGGTATGACCTGCTTCCTGCTGGC
ACTGAGGATTATCCATATAAGAATTCAACAGAGAAACGGCAGGAAGACCCCTACTACTGTCCAAGGGATCGCT
GATGATTACGATAAAAAGAAACTAGTGAAGGCCTTAAGAAAAAGTTGCCTGCAATGGTACTGTAATTGAGCAT
CCGGAATATGGAGAAGTAATTCAAGCTACAGGGTACCGCAAGAACATATGCCAGTTCTCGTAGAGGATTGGA
CTGGCTAAGGACGATCAGCTAAGGTTATGGGTTTAAGTGCTTGTGGCTACTGAAGCTTAAGTGAGGATTTC
CTTGCAATGAGTAGAATTCCCTCTCCCTGTACAGGTTAAAACCTCACAGCTTGTATAATGTAACCAT
TTGGGGTCCGCTTTAACCTGGACTAGTGTAACTCCTTCATGCAATAACTGAAAAGAGCCATGCTGTCTAGTCT
TGAAGTCCCTCATTAACAGAGGTCAAGCAATAGGCGCCTGGCAGTGTCAAGCCTGAAACCAAGCAATACCGTC
ATGTTTACGCCAAGCCCAGAGCCCTAACGATTACAAACACTATGGCCGAACCTCCTCAGCTCTCCCTGCAGA
GTTCCCTACCCCTAACGAGAATGTTACCACTGAACAGTCCTCGGTGAATCTGAGAGGAGAGGATGGGTAAGGCAG
AAGCACCAGCTGTACTACTAGAAGGGAGCTTTGGTAGATCCCCTGGTGTCCAACCTGACTAGGTGGACA
GAGCTCAAAGAGGCCCTTACCGCTAGCGAGGTGATAGGACATCTGGCTGCCACAAAGGTCTGTCGACCAAGA
CATATCCTAGCTAAGGGATGTCCAACATCAGAAATGTGAGGCCAACCTCTATCAGAGTTAAACTTTGACAAGG
GAACAAATCTCAAACGTACAGTCATGTAGCTAGCTGCAACTTAATAGCAGCAGCTGCCAA
TGCCATGTGAAGTAACAAACTGGTTTGGTTTTCCCTCAGTTTAATGTTATGTGAATGTATTAA
ACCCTTATTAAATAAAACTGTTTCAGAAAAAAAAAAAAAA

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FIGURE 434

MSAIQNLHSFDPFADASKGDDLLPAGTEDYIHIRIQQRNGRKTLLTVQGIADDYDKKKLVKAFKKKFACNGTVIE
HPEYGEVIQLQGDQRKNICQFLVEIGLAKDDQLKVHGF

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FIGURE 435A

GAGGAAGCGATTCTGGGGTTCTGTGTGACCGGTTCTGTCGCCGAAGATGCGCTTCGGCCTCTGTCAAGGGAC
 TTGAACGGGCTTAGTGGGCTCAGCCAGCTTCTCCACCGGTCACGGGGACCCCCCCCCCGGCCGTTG
CAATGGCGGGCGTGGGCCGGGGCTACGCGCCGGAGTTCTGCCCCGCAAGAGTGCCCCGTCTTGAGCCGA
 GTTGGGAGGAGTTACAGATCCGCTCAGCTTATCGGCCGCATCGGCCCTTGGGGAGAAAACCGGCATCTGCA
 AAATTGCCGCCAAGGACTGGCAGCCTCAGCTGTGAAGTAAAAGCTTCGTTACTCCAAGAGTCC
 AGCGCCTGAATGAACCTGAGGAATGACCAGAGTGGAGATTCTGGATCAACTAGCAAATTGGAAAC
 TTCAAGGATCTACTCTGAAGATCCCTGTGGTAGAGAGAAAAATCCTGGATCTGTATGCTTGAGCAAGATTGTTG
 CCAGCAAAGGAGGTTTGAATGGTCACCAAAGAGAAGAAAATGGCTAAAGTGGTAGTCGCTGGATATCTGC
 CAGGAAAAGGAACTGGGTCTTTGAAGTCACATTATGAAAGAATTCTACCCATATGAGCTTTCCAGCTG
 GTGTGAGCCTATGGGTGTGCAGATGCCTAATTAGATCTAAAGAAAAAGTGGAGGCTGAGGTTCTCAGCACTG
 ATACCCAAACTCCCCAGAGCAGGCACAAGGATGAACATTGCGAAGAGAACAGCTGTGAAGACTCAGT
 CAGAATCTGGAGATGTGAGTAGAACACGGAACCTGAGAAGAAACTTCAGATTGGGGCTGGGCCAAGGTTGTGG
 GCTTGGCAATGGGAACAAAAGATAAAGAGATGAGGTACCCGAAGACGAAAAGTTACCAACAGGTACAGCAT
 TTAACATGCAAATGAGACAACGGAAGGCACACTCTCTGTTAACTTTGATCTCTATGTTGATGTTGATGTTG
 GTCGGGAAACAATGAAGATAAATTGCTTTGTGATGGATGTGATGACAGCTATCATACTTGTCTAAATC
 CTCCACTACCTGATGTGCCAAAGGAGACTGGAGGTGCTAAATGTGTCGCCGAGGAATGTAGCAAACCTCGAG
 AACGCTTGGATTGAAACAAGCTGTACGGAGATATACACTTCAGAGCTTGGAGAGATGGCAGATAATTAAAGT
 CTGATTATTTAATATGCCAGTCCATATGGTCCCACAGAACTAGTAGAAAAGGAATTGGCGGCTGGAAGCA
 GCATTGAAGAAGATGTTATTGTGGAATATGGAGCAGATATCCTCAGAAAGACTTGGAAAGTGGATTCCGGTGA
 AGGATGGCGGAGAAAGATTGCCCCAGAAGAAGAGGAATATGCACTTCTGGTTGAAATTGAATAACATGCCTG
 TCCTGGAACAGTCTGTTCTGCACATATTAATGTCACATCTGGTATGAAAGTGGCTGCTATGTGGAA
 TGTGCTCTCTCTTGTGTCACATTGAGGATCACTGGAGTTATTCCATCAACTACTGCACGGGGGAGC
 CAAAGACATGGTATGGTGTGCCATCTCATGCTCAGAGCAACTGGAGGGTGTAGAGAGAGCTGGCCCCGAGT
 TATTGAAATCCCAGCCTGATCTCTGCATCAGTTAGTACCATCATGAACCCCAACGTGCTAATGGAGCATGGT
 TGCCTGTGTACAGGACCAATCAGTGTGCTGGCAGTTGTTGACATTCTCGTGCCTATCACTCTGGATTTA
 ACCAGGGCTACAACCTTGCTGAAGCTGTGAACTTCTGACTGCTGACTGGTTGCCATTGGACGTCAATGTGAA
 ATCATTACCGACGCCAAGGGCCACTGTGTTTACACGAGGAACATAATTCAAGATGGCAGCAGATCCAG
 AATGCTTAGATGTGGGCTGGCTGCCATGGTCTGCAAAGAAATTGACTCTCATGACTGAAGAAGAACACGATTAA
 GAGAGTCTGTTGTACAGATGGGTCTGATGTGAGAAGAAGTGGTGAACCTGTTGATGAGCAGCGGC
 AGTGTTCAGCATGAGAACACATGTTCTCTGCTCTCACATGTTCTGTAATCCTGAGCGGCTTGTATGTC
 TCTACCATCCAACGTGATCTGCCCCCTGCCCATGAGAACAGTCTTAGATATGCTACCCATTAGAAGACC
 TCCCTCTCTGCTATATGGTGTAAAGTCAGGGCACAGTCTGACACTTGGTCAGTGTGTTACAGAAC
 TGTCTGCTAACCAACACAAAAAGATTGATTGAAATTGCGAGTAATGCTGGAAGATGCTGAGGATAGGAAT
 ACCCAGAGAATGATCTTTGAAAACAGGGATGCTGTAAAAGAAGCTGAGACCTGTGCTTGTGGCTCAGC
 TGCTTGTGAGCAAAAGCAGAAACACAGACAGAGGCCAGATAGTGGAGGACTGGACCAAACGTACAGTGGAAAG
 AATTGAAGGCCTTGTCCAACAACCTTTAGTCTCCGTGTCATGCCAGCAAGCTGGCAAGTAAAGAATCTGC
 TAGATGATGTGAAAGAGTTCATGAAACGTGCTCAGGAGGCCATGATGGATGAAACCCAGATTCTCAAAC
 AGATGTTGATAGATATGGCTCTAGTCTCTATGTTGAACTCCCTGAAATTACACAGACTGAAGCAAGAGCTACAAC
 AGGCTCGGTGGTGGACGAAGTAAGACTGACCTTATCAGATCCGAACAAAGTCACCTGGATGTGATGAAGAAC
 TGATAGACTCTGGGGTAGGGTGGCACCCACCATGCTGTGGAGAAAGCAATGGCTGAACTACAGGAGCTCCTTA
 CAGTCTGTAACGATGGAGAAAAGGCTAAGGTCTGCCATCAGGCAAGACCGAGGCACAGTGTGGCAAGTTAG
 AAAGCATTGTGAATGAAGCCAAGAACATTCCAGCCTTCTACCCAATGTGTTGCTCTGAAAGAAGCCTTACAAA
 AGGCTCGAGAATGGACCGCTAAAGTGGAAAGCTATTGAGCTGGCAGCAATTACGCTTATTGGAGCAGCTTGAGA
 GCTTGTCTGCGAAAGGACGCCATTCTGTGCGCTTGAAGCACTGCCAGTGGAAATCACAGGTAGCAGCAG
 CACGGGCATGGAGAGAACGGACTGGGGACGTTCTTAAGAAGAATTCTAGCCATACATTGTTACAGGTGCTGA
 GCCCCCCGGACCGACATTGGTGTATATGGAGTGGAAAAATAGGAGGAAAAAGTAAAAGAAACTAATAGAAAAG
 AAAAGAAAAGGATCTGGACCTGGAGCCTGAGTGTAGTGGAGGAAGGATTGGAGGAAACCAGAGATACAGCCA
 TGGTGGTGGCAGTTTCAAAGAACGGAGCAAAAGAGATTGAAGCCATGCATTCTCAGAGCAGCCAACCTAG

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FIGURE 435B

CCAAGATGACAATGGTGGACCGCATAGAAGAAGTAAAATTTCATTGCCGCAAGACAGCCAGTGGGTTATGC
TACAGTGTGAGCTCTGCAAAGACTGGTCCATAACAGCTGTGTCCTCTCCTAAATCAAGTCCAAAAAAAG
GATCCAGCTGGCAAGCTAAAGAAGTAAAATTCCCTTGCCCTTGTATGCGGTCTCGAAGGCCAGGCTAGAGA
CTATTCTGCACTCCGGTATCCCTCAGAAGTTGCCGTACGGTGCCTGAAGGAGAGGCCCTGCAGTGTG
CAGAACGTCTATGAGTTGCAAGATAAGCGCAGGCTCTAGCCACAGATGAACATATCCTCTGCCCTGGCCA
AACTATCTGTTGAGCCAGCGTATGGGAAACAGGCCAGGCTCGAGAAAAAACTGAAAGATCATCAGTGCAGAAC
TCCAAAAGCAGCTGCCATCCAGACTTACAGGGACACTTACCTAGTTCCAGCAGTCTGCTTTAACGGGTGG
TGAGCAGTGTGTCATCTCTCGACAAACAATGGACTATGATGATGAAGAACAGACTCTGATGAAGACATT
GAGAGACATATGGCTACGACATGAAGGACACAGCCAGTGTGAAGTCCTCTAGTAGTCTGAACCCATTT
GTGATGAAGAGATTCCCATCAAATCCGAGGAGGTGGTACCCACATGTGGACAGCACCTCATTGTCAGAGC
ATGCTTATTCTCTGCTTAAGAGTTGTTCTAAGTATTGGAAAGGTTCTAGCACCCCAAGGAAACAAAC
CTCGGAAGAGCCCTTGGTGCCCGAAGTTGGAACCTCCAGTGTGCTGGAGTTGTCACCTGGAGCTAAGGCACAAAC
TGGAAAGAACTTATGATGGTGGAGATCTCTGGAAAGTATCTCTGGACCGAGACTCAACACATATGGCGGATTTGC
AGGCCACACACCCACCCTCTGAAGACAGATTCTGCATATCATGGAGGATGACAGCATGGAAGAGAAACCAACTAA
AACTGAAAGGAAAGGACTCTCAGAGAGAAACGAAAGCTAGAAAAGGTTAGAGCAACTTTGGAGAAG
GAAAACAGAAGTCCAAGGAGTTAAAGAAAATGGACAAACCTAGAAAGAAGAAATTAAATTAGGTGAGACAAAT
CAAAGAAGCTGAATAAACTGCCAAGAAACTAGCAAAAGAAGAGAGAAAGAAAAGAAGGAGAAGGCTGCTG
CAGCCAAAGTTGAACCTGTGAAAGAGAGCACTGAAAAGAGAAAAGGAGCTGGCTGGACATCCCCTCAAAGT
ATGACTGGTCAGGAGCAGAGGAGTCTGATGATGAGAATGCTGTGCGCAGAACCCAGACTGCCAAGGCCCTGCA
AGGACAAGGGAGTTGTTACGAGAAGAGAGATAAAAATATTAGTTAAAAGTGTCTATGTGACT
GCTTTCTAAAAGGTAGACTGGGTACAATGTGATGGTGGCTGTGATGAGTGGTTCATGGGTTGTGGGTG
TATCTCCAGAAATGGCTGAAAATGAAGATTACATCTGTATAAACTGTGCAAAGAACAGGGGCCAGTTAGCCAG
GTCCAGCACCACTCCTCCTCATAATGAGCTACAAACTACCAATGGAGGATCTTAAAGAGACCAGT**TAG**CAGA
TGCTTGGTAGTTGGACATGGGGACATGGGACATTGAGACCTAGTCATCAAGTAGAGTGGTTATATC
ACTTGGAAATGTTGCTCTAAAGATGAATGGCCTTCAGAGAAAAGTCCCTTAGTGTGGCTTCTTGCATGGA
CTCTGTGGTTACATTGCTCTACAAACATATCTATGAGGGGTGTCTTGGTACAACAGCAATATCTCAT
GTCTCCTTGTGAGTGTGGTTACTGCATTAAGGCCAGATGCTTAATTGAGCTCTAGGGTGGCTGGTTAGTATTAAAT
ACATTGGTGTGCTAACAGGCATATAGGATGTGGCTTGTCCAGCTGATAGTAGTTAGAGGCTTACAACCTAGG
AGCAGCACCAACTGAAGGTGCTAATTGCTGGATCTCTCATTAGGATAGTTGGAGAGGGATTGGAGTACCACT
TTCTCCACTGTTACCAAGGTACTTAATGCCCTAAAGATAACAACTAGGGATAACAGGGCCAAGTTATTCTGTTA
GACGTCAAGGAATGGTATCACAGTCTATTGACCTCAGCGATTGTGCTTGTGCTAGAGAACATCCCAAT
AGGAGAACCTCTACAAGCTGGGCAGGTACCTATCTTGTAAAGATGAGGATATCATCTAGATCAGAAATCTG
ACTAGATTGGATTCTGAGGAGAAGAACCTACTACAAGGCAAGGAGCCCTTTGGCTTGAAAAGTCTGCTGT
CTGGGTCTACATTAGGAAAGAGCAGGTACATGGATCCAGGCTCTGCCAAAAAAAGAGAAGAACATG
CGAGTATGACCAGTCGTACTATCTTACTGAGCCACAGTGTGATGCATGCTTCCGGGAAAACCTCATTACAAGTA
TTCCAGACACCAGGCTCAGGCATGCCATGAGCAAGACCAGCAAATAACAGCTTTCCCTGCAGCCCTGACC
CCAATGTCGCTGTTCCAACACTGGTATTCTAAACTACGCCAACAGCAGATGCTGTTGAATAACACCATGGC
TTCATCAGAGGATGTGGGTGTTAGTACCTCTGGGTGATGAAGTTGTTAGCAAATCCATTAAAAAA
AAAAA

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FIGURE 436

MAGVGPGGYAAEFVPPPECPVFEP SWEETDPLSFIGRIRPLAEGTGTICKIRPPKDQOPPFACEVKSFRFTPVRQ
RLNELEAMTRVRLDFLDQLAKFWELQGSTLKIPIVVERKILDLYALSKIVASKGGFEMVTKEKKWSKGSRGLYLP
GKGTGSILLKSHYERILYFYELFQSGVSLMGVQMPNLDLKEKVEPEVLSTDQTSEPGTRMNLIPKRTRRVKTQS
ESGDVSRNTELKKLQIFGAGPKVVGLAMGTKDKEDEVTRRRKVTNRDAFNMQMRQRKGTLGVNFVDLYVCMFCG
RGNNEDKLLCDGCDDSYHTFCLIPPLPDVPKGDWRCPKVAEECSKPRAEFGFEQAVREYTLQSFGEADNFKS
DYFNMPVHVMVPTELVEKEFWRLVSSIEEDVIVEYGAIDISSKDFGSGFPVKDGRRKILPEEEYALSGWNLNMPV
LEQSVLAHINVDISGMKVPWLYVGMCFSSFCWHIEDHWSYSINYLHWGEPKTWYGVPSHAAEQLEEVMRAPEL
FESQPDILLHQLVTIMNPNVIMEHGVPVYRTNQCAGEFVVTFRAYHSGFNQGYNFAEAVNFTADWLP1GRQCVN
HYRRRLRRHCVFSHEELFKMAADPECLDVGLAAMVCKELTLMTEEETRLRESVQMGVLMSEEVFELVPDDERQ
CSACRTTCFLSALTCSNCNPERLVCPLYHTDLCPCMOKKCLRYRPLEDPLSLLYGVKVRAQSYDTWVSRTVTEAL
SANFNHKKDLIELRVMLEDAEDRKYPENDLFRKLRAVKEAETCASVAQLLLSKKQKHRQSPDSGRTRKLTVEE
LKAFVQQLFSLPCVISQARQVKNLLDDVEEFHERAQEAMMDETPDSSKLQMLIDMGSSLYVELPELPRLKQELQQ
ARWLDEVRLLSDPQQTLDVMKKLIDSJVGLAPHAVEKAMAELQELLTVSERWEEKAKVCLQARPRHSVASLE
SIVNEAKNIPAFPNVLSLKEALQKAREWTAKVEAIQSGSNYAYLEQLESLSAKGRPIPVRLEALPQVESQVAAA
RAWRERTGRTFLKKNSSHTLLQVLSPTDIGVYGGSGKNRRKKVKELIEKEKEKDLDLEPLSLEEGLEETRDTAM
VVAVFKEREQKEIEAMHSILRAANLAKMTMVDRIEVEVKFCICRKTASGFMLQCELCKDWFHNCSVPLPKSSSQKKG
SSWQAKEVKFLCPLCMRSRRPRLETILSLLVSLQKLPVRLPEGEALQCLTERAMSWQDRARQALATDELSSALAK
LSVLSQRMVEQAAREKTEKIISAELOQAAANPDIQGHLPFQQS AFNRVVSSVSSSPRQTMDYDDEETDSDEDIR
ETYGYDMKDTASVKSSSLEPNLFCEEPIKSEEVVTHMWTA SFCAEHAYSSASKSCSQVFFGKGSSTPRKQP
RKSPLVPRSLEPPVLELSPGAKAQLEELMMVGDLLEVSLDETQHIWRILQATHPPSEDRF LHIMEDDSMEEKPLK
VKGKDSSEKKRKRKLEKVEQLFGEKGQSKELKKMDKPRKKKLKGADSKKLNKLAKKEERKKKEAAA
AKVELVKESTEKKREKKVLDIPS KYDW SGAE ESDDENAVCAEPDCQRPCKDKGVVFVTKKREIKNISFKSVLCDC
FSKKVWDWVQCDGGCDEWFHRVCVGVSPEMAENEDYICINCAKKQGPSPGPAPPSFIMS YKLP MEDLKETS

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FIGURE 437A

GAAGCGGGGGGGGGGGGGAGCAGCCAGCTGGGTCCGGGGAGCGCCGCCGCCCTCGATGGGTGTTGAAAAGT
 CTCCTCTAGAGCTTGGAAAGGCTGAATGCACTAAACATGAAGAGCTGAAAGCGAAGTCAGGAAGAGTGACACC
 AATGAGTGGAACAGAACATGATGACCGGCTACTGCAGGCCGGAGAATGGAGATGCGGAGAACGGCTCAGTGC
 CTCGGCAAGAACGGGGCCAGTGCCACCAAACACGACAGTGAGGGCAAGACCGCTTCCATCTGCTGCTGAAAA
 GGACACGTGGAATGCCCTAGGGCATGATTACACATGGTGGATGTGACAGCCCAGATACTACCGGACACAGC
 GCCTTACATCTCGCAGCCAAGAACAGCCACCATGAATGCATCAGGAGGCTGCTCAGTCTAAATGCCAGGCCGA
 AGTGTGACAGCTCTGGAAAACAGCTTACATTATGCAGGGCTCAGGGCTGCCCTCAAGCTGTGAGATTCTC
 TGCAGAACACAAGAGCCCCATAAACCTCAAAGATTGGATGGAATATACCGCTGCTCTGCTGTACAAAATGGT
 CACAGTGAGATCTGCACTTCTGGATCATGGAGCAGATGTCATTCAGGAACAAAAGTGGAAAGAACTGCT
 CTCATGCTGGCCTGTGAGATTGGCAGCTTAACGCTGTGGAAGCCTTAATTAAAAGGGTGCAGACCTAACCTT
 GTAGATTCTCTGGATACAATGCCCTACATTATTCCAAACTCTCAGAAAATGCAGGAATTCAAAGCCTTCTATTA
 TCAAAAATCTCAGGATGCTGATTAAAGACCCCAACAAACCAAGCAGCATGACCAAGTCTCTAAAATAAGC
 TCAGAAAGAAGTGGAACTCCAAAACACGCAAAGCTCCACCCACCTCTATCAGTCTCACCCAGTTGAGTGATGTC
 TCTTCCCCAAGATCAATAACTCGACTCCACTATCGGAAAGGAATCGTATTGGCTGAACCACCCCTCAAG
 GCTGAGATCAGTTCTACAGGAGAAAACAAAGACAGACTAAGTGACAGTACTACAGGTGCTGATAGCTTATTGGAT
 ATAAGTTCTGAAGCTGACCAACAAGATCTTCTCTATTGCAAGAAAAGTTGCTTCCCTTACCTACACAAT
 AAGGAGTTACAAGATAAATTACAGGCCAAATCACCAAGGAGGCGGAAGCAGACCTAAGCTTGACTIONCATACCAT
 TCCACCCAAACTGACTTGGGCCATCCCTGGAAAACCTGGTAAACCTCTCCCCAGACTCCAATCATCTCCA
 TCTGTCTTAATACATTCTTAGGTAATCCACTACTGACAATGATGTCAGAATTGCAACTGCAAGAGATTTG
 CAAGATCTACAGAAGAGATTAGAGAGCTCTGAAGCAGAGAGAAAACAGCTACAGGTGCAACTCCAATCCGAAGG
 GCAGAACTGGTATGCTTAAACAACACTGAGATTTCAGAGAACAGCTCTGACCTCAGCCAGAAACTTAAAGAAACT
 CAGAGCAAATACGAGGAGGCTATGAAAGAAGTCCTTAGTGTGAGAACAGCATGAAACTCGGTCTGTCACCT
 GAAAGCATGGATAATTATTACACATTCCACGAGCTGAGGGTCACGGAAGAGGAAATAAATGTGCTAAAGCAGGAT
 CTGAGAACATGCAATTAGAAGAAAGTGAAGAGAAATAAGAGAAAGTGAAGAGAGTTAGAGGAAAACCTGGTAGAGAG
 GAGAAAGGTACAGTGATTAAGCCACCTGTGGAAGAGTACGAGGAAATGAAAGTTCATATTGCTCTGTTATTGAG
 AATATGAATAAGGAGAAAGCATTTGTTGAGAAATACCAAGAACGCCAAGAACAGAAATCATGAAATTAAAAGAC
 AACACTAAAAGTCAGATGACACAGGAAGCCAGTGATGAAGCTGAGGACATGAAAGAACATGAAATGGATGATA
 GATGAACCTCAATAAACAGGTGAGCGAGCTGACAGCTGTACAAAGAACGCCAGGCTGAGCTGGAGGATTACAGG
 AAAGAGGAAATCTCTAGAGGATGTCACAGCTGAATATATCCATAAGCAGAGCATGAGAAACTGATGCAATTGACA
 AACGTGTCAGGGCTAAAGCAGAACAGATGCACTGTCGAAATGAAGTCAGTATTCAAAGTGTGAATGAGTTG
 ACCCAGCTCAAACAACAGGTGAGCGAGCTGACAGCTGTACAAAGAACGCCAGGCTGAGCTGGAGGATTACAGG
 ACGCTGCGGACTGCAAGCAAAAGAGATGGAAGAAAATAAGCAATCTTAAGGAACACCTTGCAAGCAAGGAAGTG
 GAAGTAGCAAAGCTGGAGAAACAACCTTAAAGAGAACAGCTGCTATGACTGCAATGGTACCTCGGTCTTCC
 TATGAAAACCTCCAGTCATCCTTAGAGAGTGAAAGTGAGTGTGTTGGCATGAAATTAAAGGAATCTGAAAGAG
 AAAGAGAAGGTCCATTCAAGAGGTTGTCAGATTAGAAGTGAGGTCTCACAGGTGAAAGAGAAAAGGAAAATATT
 CAGACTCTCTGAAATCCAAAGAGCAAGAACAGTAAATGAACTCTGCAAAAATTCCAGCAAGCTCAGGAAGAACCT
 GCAGAAATGAAAAGATAACGCTGAGAGCTCTCAAAACTGGAGGAAGATAAAGATAAAAGATAATGAGATGTCG
 AAGGAAGTCACCAAATTGAAGGGAGGCTTGAACAGCCTCTCCAGCTCCTACTCAACAAGCTCATCCAAAAGG
 CAGAGTCAGCAGCTGGAGGCGCTGCAGCAGCAAGTCAAACAGCTCCAGAACACCAGCTGGCGGAATGCAAGAACAA
 CACCAGGGAGGTCAATTCAAGTTACAGAATGCATCTCTGTATGCTGTGAGGGCCAGATGGATGAAGATGTCAG
 AAAGTACTGAAGCAAATCCTTACCATGTGAAAACCAGTCAGTCAAAGAAGTAAAGTGGATTCTTGGCAGGACA
 CTGCCCCCTGTCATCTGCTTGTGTTAGATCCAGAGTTGTCGGCAGCCGCTGCCATTGTTCTCATCGTGGTAT
 GCACTGTGGCTAGCTCTTCCAAAGGTTCTGAGGACTCTCCAGGAGAACAGACTGCCGCC
 CAGAACTGCTTAGAGACCTCAAACAGCAGAGGTGAAAGTCCTGTCATCCCTCAGATTCCAGAGCTGGATCA
 GCCATGCCAGAGGTCTGGCTCTGATGCTGGCAGGGGGCCCCCTCCTCATCCCTGACTGGCTGAGTGGCTTCA
 TCACCAACCGAGTGATGTGCTGAGGCTCCTGCAGTGAAATGCTCTTCCATTCTGACTCGGGCAGTGCCATTCA
 GCACAGGAGAGCTTTGCCTTGGCTTCAATTCCAAAACATGATTAATTCTAACTAAATTAGTATGGCA
 CTAGTTATGAAGTATCTGCTTAAACCCCTCATCATGATATCCTGTGGATTAAAACCTCTAATTCCATGTTTC

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FIGURE 437B

TTCCCATCTGCCTTATATCTCATCACCCGTCTTATCAATATTCAAGTTGATGAGCACTATTAACAAAAATATG
AAACTAAAAACAAAAGCAAGTTGCCTTAAAGTTCTTTTAAGTAAATTGTTGACATACTGCAAATTCT
ATGCAAACCTGCCTCCTGCTGTTATCTGTGAAGCTCAGGAAATCCAACATTGTTCAACAAGGGACAGTAA
ACTGTGTGTTACAGCAAAGAAATGCCCTAGTTCTAACCTCAACTTTGAGAAGTATTTCTCTGT
AATATTTTATTGGCTCATAAAGATGTTICATATCTGAACCTCTAAATAAGTCAAATTACAGTAGATTATTA
ACAAAATACTTTAGGTAGCCATGCTTGAGACTTTAAAAATATAACTTTCTTAAAGTTTCAGCTATAG
CAAAGGTAGTTATGTATGCCAGACCTAATATGAGCTGCCACCAACACCCCTAGAACCTTCAGCCATGGTGTCTT
CAGAATTGTAGCGCATTCTGAATCTAGCAAATCCTCTTACCGTTGAATGTTGAATGCCCTGACTCTAC
CAGCGCCCATAAATGATCTAGAAGGACTGTTAGTACCAATCTGTTCAACTTGAAGCTAAAACCCGTAT
ATGGTAATATTATGGTGCATAGCAGAGGCTCGGAAAAAAATATTCTGTTCACTTACTTCAGGTTAAAAT
GTTTCTAACACGCTTGCAACTCCCTATGGCATTAAATCTGTTGAGGGAGAGACAGAACCTGGACTCTCCA
AAGTATTAACTGAAAGTAGGGCCTGCTCTGACAGGGCCATGTCACAGGCTGCTGGCCTCAGGGTGCT
TGGCTGTGCTGGATGATGTTGATCTGTATTGGATAAGGACCAATGACAGCAAAGCAAAATGGCTTAAAGCT
TGGTGTACTTTCTTAAGTTGTTAAATTATAGTTAAGCAATTCAAAAATGCTCAAAGAAATGTGAAAGGACC
TTTGTACAGCACTCAGAAAATACACAACAGCCCCCTCTGCCCCCGCACAGAAATGCTGCAGAGTATATAAAA
CTTGAGACATTTGTAGGATGCCTGACGAGGTGAGCCTTATCTGTTCCGGATGCATATTATTACGAGT
ACTCTGGTTAAATATTGAAAAGTTATGCTGTAGTTTAGTATTTGTCCTTGAATTACAGAAGTTATTGG
AGAAAATAACTTGTGTTCATTTGCAAAAAAAAAAAAAAA

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FIGURE 438

MKSLKAKFRKSDTNEWNKNDDRLLQAVENGDAEKVASLLGKKGASATKHDSEGKTAFHAAKGHVECLRVMITH
GVDVTAQDTTGHSALHLAAKNSHHECIRRLLQSKCPAESVDSSGKTALHYAAAQGCLQAVQILCEHKSPINLKDL
DGNIPLLAVQNGHSEICHFLLDHGADVNSRNKGRTALMACEIGSSNAVEALIKKGADLNLVDSLGYNALHYS
KLSENAGIQSLLLSKISQDADLKPTPKQHDQVSKISSERSGTPKTRKAPPPPISPTQLSDVSSPRSITSTPLS
GKESVFFAEPPFKAEISSIRENKDRLSDDSTTGADSLLDISSEADQQDILLSLLQAKVASLTLHNKELOQDKLQAKSP
KEAEADLSFDSYHSTQTDLGPSLGKPGETSPPDSKSSPSVLIHSLGKSTDNDVRIOQQLQEILQDLQKRLESSEA
ERKQLQVELQSRR AELVCLNTEISENSSDLSQKLKETQSKYEEAMKEVLSVQKQMKG LGLVSPESMDNYSHFHEL
RVTEEEINVLKQDLQNALEESERNKEKVRELEEKLVEREKGTVIKPPVEEYEEMKSSYCSVIE MNKEKAFLFEK
YQEAQEEIMKLKDTLKSQMTQEASDEADMKEAMNRMIDELNKQVSELSQLYKEAQAELEDYRKRKSLEDVTAEY
IHKA EHEKLMQLTNVSRAKAEDALSEMKSQYSKVLNELTQLKQLVDAQKENSVSITEHLQVITTLRTAAKEMEEK
ISNLKEHLASKEVEVAKLEKQLLEEKAAMTDAMVPRSSYEKLQSSLESEVSVLASKLKESVKEKEKVHSEVVQIR
SEVSQVKREKENIQTLLKSKEQEVNELLQKFQQAQEEAEMKRYAESSSKLEEDDKKINEMSKEVTKLKEALNS
LSQLSYSTS SSKRQSQOLEALQQQVKQLQNQLAECKKQHQEVISVYRMHLLYAVQGQMDDEVQKVLQILTMCNK
QSQKK

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FIGURE 439A

AGTGGGACTCAGCGGGCGTGGAGGTGCAGCGGACGGAGCGAGCCCTGGCGAGTGAATTGGCTGGGGTTGA
 CGGTGGAGACACCCCCCGAGAGGCGGAGGGAGGGAGGCTGCACCTGCATGCTTCCCCTCCACTCC
 CCAGCGCCCCCGAACGTGCAGTCTCTGCAGGACCAGGCC**ATGGAGCTCGAAGTCCGGCGGTCCGACAGGC**
 TCCGTCCGGCGGTGCACCTCTGCAGGTTCGCTGCAGCAGCTGGAGGCCCTGGGAGGATGGTCAGGAGC
 GCGAGAAGGATATCCTGACGCCATGCCGCCACCTGTGCAGAGTGAATTCAATGTACAGTCAGGAAGTCA
 TTACTGTCCTGGGAAATTGATTATGCTTGAGAATCTCCTGAATGGTTACTGCTAAACCAGTTAAGAAGA
 ACGTGCTCACCATGCTGGATGAGGCCATATTGCCACAGGCCCTGGGAGTGGTGCATAATCGGAGCTTGG
 ATTACCCCTCGTCTCACCATGCCACTGATAGGAGCCATGCCCTGGCAGGAAATGCTGTGATTATAAGCCTT
 CTGAAGTGAAGAAATACAGCCAAGATCTGGCAAAGCTTCCCTCAGTATTAGACCAAGGATCTCTATATTG
 TTATTAAATGGTGGTGTGAGGAAACCACGGAGCTCTGAAGCAGCGATTGACCACATTTCTATAACGGGAAACA
 CTGCGGTTGGAAAATTGTATGGAGCTGCAAGCATCTGACCCCTGTGACTCTGAACTGGGAGGGAAAA
 GTCCATGTTATTGATAAAAGATTGTGACCTGGACATTGTTGCAGACGCATAACCTGGGAAATACATGAATT
 GTGGCCAAACCTGCATTGCACCCGACTATATTCTCTGTGAAGCATTCCAAAATCAAATTGTATGGAAGAGTA
 AGGAAACAGTGAAGGAATTATGGAGAAATATAAAAGAGTCTCTGATTATGAAAGGATCATCAATCTCGTC
 ATTTAAAGAGGATACTAAGTTGCTGAAGGACAAAAGATAGCTTGGTGGGGAGACTGATGAGGCCACACGCT
 ACATAGCCCCAACAGTACTTACCGATGTTGATCCTAAACCAAGGTGATGCAAGAAGAAATTGGACCAATT
 TTCCAATAGTGCCTGTGAAAATGTAGATGAGGCCATAAATTCTATAATGAACGTGAAAAGCCTCTGGCTCTT
 ATGTTATTTCGCATAACCATAAGCTCATCAAACGGATGATTGATGAGACATCCAGTGGAGGTGTCACAGGCAATG
 ACGTCATTATGCACCTCACGCTCAACTCTTCCCATTGGAGGAGTGGGTTCCAGTGGATGGGAGCTTATCAGC
 GAAAACATAGTTGATACTTTCTCATCGCGCCCTGTTATTAAAAAGTTAAAGAGAGAAGGTGCTAAC
 AACTCAGATATCCTCCAACAGCCAGTCAAAGGTGGATTGGGGAAATTCTCTGAAACGGTTCAACAAAG
 AAAACTCGGTCTCTGTTGCTCACTTCTGGTATTGAGCCGCTGTGCTGCAAGGCAGAATATTACT**TGA**
 GAATGATCCTGTTCAACCTCTAGTCCTACTGAATTATTCTCTTTAAATGGTAAATGAACCAATAATT
 TAAATCATACCAAAATAGTAAGAAAATATGCAAACACTCTGTGATCAAACACTAAAGTCATTGCCATT
 TAATAAAAGTTGCCATTCAACTACGTCCAAACATTCCCTAATAGGGTATTAGGGAAACCTGTCTAAATTGTGC
 TTATCTAAATCTTGAACCTTGAGCTAGGGAGGAGATGATTAGACTAAACACTGCGGGTTGTAAGGG
 AGTCTCAGAACCTCACTGAATCCTCACTCCAGTAAATGGCACTGCTCACTCCCTGCTGCTGCCACCATCAC
 TGTGTGAAGCTTCAAGAGCTGGTACTTCCAGGGCTACGGCAGTCCTCTGCTAGTCCAGAGAGGTGAGATTAG
 ATCTCTGGTCCCTGTGAGGTTCAAGGACTAAACTCTATGTGGGAAGGGAGGGTTACTCCTCTCCAAT
 GGGACTCAAGGACTTGACCTCCAGGAGTAGGCCCTGGTCAGAAGTGCATCTCACCAGTGGCTTCATTCTCC
 TCATTCTTATCATCCTGTGTTGTTAGTGCAACAACTCTGTGACTAATGTCACTCAAACATCT
 GTAACCTAGGGCTTCTGGAAAGTTAGTGCAAAGTCATGCAAGCATCACCTGTCAATTGTGTTGGAGTTATA
 GAATTCTACATCTTATAAAACCTAACTGGCATTAAAAAAACTGTGGCCGGCGTGGCTCATGCCGTAAAT
 CCCAGCACTTGGGAGGCCAGGTGGAGGATTGCTGAGTCCAGGAATTGAGACCAAGCCTGGACAACACAGTG
 AGACCTCATCTATCAAAAAAATAGCTAGATGTGGTGGCATGAGCCTGTGTTCCAGCTGCTTAGGAG
 GCTGAAGCAGGAGGATTGATTGAGCCTGCGAGGCCAAGGCTGCAGCAGGCTGTGATTGACCAACTGCACCTCAGC
 TTGGGCAACAGAGCAAGACCCGTCTCCGAAACAAATAAAACTGTAATAAAAGTACTTATAACATACTAA
 TCCCTTCTCAGGACCTAAAGTTGCAAGGTTAGTAGGTCTCAAGGACAAATCTGTAAGTTCTTCTGAGTGC
 AAGTAAATTCACCTTTGAAACTATAGAGAGATCCCTTCTGATTAGCCTACAGAACCTAAAGTGGAGGAACC
 ATTCCTCTCACAGACAAAGAGGCCCTGGGATATTAGGACTTGGGTTGAGAGCATCATGGGAGACAGATGG
 TGGATGGCTGGACAAGAAGCGAGTAAGCCACTGCGGTTGGTCATACTGAAGGAAATTGATGGCAAGAGGATCCC
 CTGAGCAAGTCAGAACAGTTACTCTCATCAGTCGTTCATGGTCACAAACCTGAGGTACTCTGCTGAGTGGCAAGGCT
 GAAGTAAGAGGCCCTGGAAATGCAGCATTACCTGCTGGACAGAGCAGGGCAGGCAGTTCTATGCCCTGGAGCTCC
 TGACTGCAGGGACTCTGTCCCCACACTCAGAAAGACTCAGCTCACTCAATGAGAGAATGTGATTACTTTATAGA
 ACGTATAATCAACTTGTGATAATTGTTCTATTAAAGGCTGTCAAATGTGATGTCTCATAGTATGAA
 GTGTTGAAAATTAAACGAGCCTAGTTAGGAAAAAGCTGCTTAAACTGTGGCTCTAAGAGAGTAATCATAAA
 ATACCTAGATAAAATTGCACATGGAAATTTCATTGAGTATGTTAAATTATTGGCTTGTCTACTAATACATCT
 GCTTCAAAATGAACATATTCTATAAAATTGGCATCAATTAAATGACGCTCCTGGTATGGAACCTCAGATATACC

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FIGURE 439B

CTATTGGAGACAATCCTTGATCATAAATTCTCCCCAACTATAAATCATTATGTCTTAAAAAAAAAAAAA

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FIGURE 440

MELEVRRVRQAFLSGRSRPLRFLQQLEALRRMVQEREKDILTAIAADLCKSEFNVYSQEVTVLGEIDFMLENL
PEWVTAKPVKKNVITMLDEAYIQPQPLGVVLIIGAWNYPFVLTIQPLIGAIAAGNAVIIKPSELSENTAKILAKL
LPQYLDQDLYIVINGVEETTELLKQRFDHIFYTGNTAVGKIVMEAAKHLTPVTLELGGKSPCYIDKDCDLDIV
CRRITWGKYMNCGQTCIAPDYILCEASLQNQIVWKIKETVKEFYGENIKESPDYERIINLRHFKRILSLLLEGQKI
AFGGETDEATRYIAPTVLTDVDPKTVMQEEIFGPILPIVPVKNVDEAINFINEREKPLALYVFSHNHKLIKRM
DETSSGGVTGNDVIMHFTLNSFPFGGVGSSGMAYHGKHSFTFSHQRPCLLKSLKREGANKLRYPPNSQSVDW
GKFFLLKRFNKEKLGLLLTFLGIVAAVLVKAEYY

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FIGURE 441

GC GCGC CCTT CTCC AG TCC CG CG GTGCC ATGG CCCCC CGCC GTC TCG C GCT GCT GCT TCG TAGG CGG AG
TCGCC GAGTC GATCC GAGAG ACTG AGGT CATG AC CCCC CAGG ACCT CC TAGA AGG CGA TACT TCT CCGG AGGCC
TACCA GACG ATGAGG ATGT AGT GGGG CCGG CAGGA ATCT GATG ACTT GAGC TGCT GGCT CTGG AGA TCTGG
ATGACTT GGAAGA GACTCC ATGAT CGGCC CTGA AGTT GTC ATCC CTGG CTAGATA ACCAT ATCC CTGAGA
GGGCAGGGT CTGGGAGGCC AAGT CCCC ACCG AACC CAAGAA ACTAGAGGAGA ATGAGG TTAT CCCC AAGAGA ATCT
CACCC GTGAAGAGAGTGAGGATGTGTC AACAAGGTGTC ATGTC CAGC ACTG TGCA GGGCAGCA ACAT CTTG
AGAGAACGGAGGT CTGGCAGC TCTGAT TGTGGG GCAT CGTGGG CAT CCTCTT GCGT CTTC TGTAC CCTAC
TGCTCATG TACCGT ATGA AGAAGA AGGA TGAAGG CAGCT ATGAC CTGGC AAGA AACCC ATCT ACAA GAGGCC
CCACCA ATGAGTT TACCGT GAAGC TTGCT GGGC ACTGG CTGG ACTT TAGC GGGG AGGG AAGC CAGGGGA
TTTGAGGGT GGGACATTAGGGTAGGGT GAGGT CAACCTA ATACTGACTT GTCAGT ATCT CAGCT CTGATT ACC
TTTGAAGT GTT CAGA AGAGAC ATTGT CT TACT GTT CTG CAGG TTCTT GAGC TTGGC CT CAGTT GCCC
TGGCAGAAAAATGGATTCAACTTGGCCTTCTGAAGGCAAGACTGGGATGGATCACTTCTTAAACTTCCAGTTA
AGAATCTAGGTCCGCCCTCAAGCCCATACTGACCATGCCTCATCCAGAGCTCCTCTGAAGCCAGGGGCTAACCG
ATGTTGTGAGT CTCGGCTGGAGGT CCTCCCCAGTGGCCTCCTCCCTTCAAGGCCGGTCTCTG
CAGGAAATGGGGAGGA ACTAGAACCA CCTG CACCTTGAGATGTTCTGAAATGGGACTTGTGATCACACTA
CGGGAACTCTGTGGTATATACTGGGCCATTCTAGGCTCTTCAAGTGACTTTGGAAATCAACCTTTTAT
TTGGGGGGAGGA TGGGAAAAGAGCTGAGAGTTATGCTGAAATGGATTATAGAAATATTGTAATCTATT
TAGTGTGTTGTCGTTTTTA ACTGTT CATT CCTT GTG CAGAGT GTAT ATCT GCTGGC AAGAGT GTGGAG
GTGCCGAGGT GTCTCATTCTCTCGCACATTCCACAGCACCTGCTAAGTTGTATTTAATGGTTTGT
TTTTGTTGTTCTGAAAATGAGAGAAGAGCCGGAGAGATGATTTTATTAATTTTTTTTTTT
TACTATTATAGCTT TAGATAGGGCCTCCCTTCCCTCTTGTCTCTTCAAGAACCCCTCCCCA
GTTTTTTTATACTTAAACCCCGCTCTCATGGCCTTGGCCCTTCTGAAGCTGCTCTCTTATAAAATAG
CTTTGCGAAACATAGTTTTTAGCAGATCCAAAATATAATGAAGGGGATGGTGGGATATTGTGCTGT
GTTCTATAATATATTATTCTCCTGGTCTAGAAAATAGATAAAATATTTTTCAAGGAAATAGTGT
GTGTTCCAGTTGATGTTGCTGGTGGTTGAGTGAGTGAATTTCATGTTGCTGGTGGGTTTGCT
TCTTGCCCTGTTCTGGTGCCTCTGATGGGCTGGAATAGTTGAGGTGGATGGTCTACCCCTCTGCTTCTG
TTGGGACCCAGCTGGTGTCTTGGTTGCTTCTCAGGCTCTAGGGCTGTGCTATCCAATACAGTAACCACA
TGC GGCT GTTAAAGTAAAGCAATTAAATCACATAAGATAAAATCCTCTCAGTTGCACTAACCAACGTT
TCTAGAGGC GTCACTGTATGTTGCTACTGACTGACAGCGAGAGCATGTCATCTGTTGGACAGCACT
ATTCTAGAGAACTAAACTGGCTTAACGAGTCACAGCCTCAGCTGTGCTGGACGACCCCTGTCTCCCTGGTAGG
GGGGGGGGAAATGGGGAGGGCTGATGAGGCCAGCTGGGCTGTGCTGGGACCCCTCCCTGAGAGGG
GAGGCCCTGGTGGCTAGCCTGGCAGGTGTCGTCCTCTGACCCCCAGTGGCTGCGGTGAGGGGAACCA
CCTTGCTGCACCAGTGGCATTAGCTCCGTACCACTGCAACCCAGGGTCCCAGCTGGCTGGGCTCTTCTG
CCCCAGTGCCCTTCCCTGGCTGTGGAGTGAGCACCTCTGAGGCACTCTCACACTGTTGCTGTT
ACTGATTTTTGATAAAAGATAATAAAACCTGGTACTTCTAAAAAAAAAAAAAA

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FIGURE 442

MAPARLFALLLFVGGVAESIRETEVIDPQDLLEGRYFSGALPDDEDVVPGQESDDFELSGGDLDLLEDMSIG
PEVVHPLVPLDNHIPERAGSGSQVTEPKKLEENEVIPKRISPVEESEDVSNKVSMSSTVQGSNIFERTEVLAAL
IVGGIVGILFAVFLILLMYRMKKDEGSYDLGKKPIYKKAPTNEFYA

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FIGURE 443A

CCTGGTCAGCGTCCCATCCGGTCGGGAGTTCTCCAGCGGCACGATGCCGAGGAAACAGTGACCCGTAGCGA
 ACCAACGGCGGCAGGTGCGCTTGTAGCTGGTGTGCCACTTCCTGGCCTGGATGAGCCGTACGCCCTCT
 GTAAACCCAACCTCCTCACCTTGAAACAGCTGCCTGGTCAGCATTATGAAGATTAGTCAGTGACAGGCCCTGG
 TGTGCTGAGTCCGCACATAGAAGAATCAAAATGTCCAAATGTAACTGGAGAGAAAGTGGCAACTTTGGGAG
 TGACTTTCCACAGGAACCTCTGCAATGTCCCACACCTCTCAGCTGCCTACTGAAAAGGAGACAGCCCCAG
 TGAAAGCACAGGAATGGACCCCCCACCCTGGCCACCCAAACCTGGACACGTTACCCGGAGGAGCTGCTGCA
 GCAGATGAAAGAGCTCTGACCGAGAACACCAGCTGAAAGAAGCCATGAAGCTAAATAATCAAGCCATGAAAGG
 GAGATTGAGGAGCTTCGGGCTGGACAGAGAAACAGAAGGAAGAACGCCAGTTTTGAGATAACAGAGCAAAGA
 AGCAAAAGAGCGCTAATGGCTTGAGTCATGAGAATGAGAAATTGAAGGAAGAGCTGGAAAACTAAAAGGGAA
 ATCAGAAAGGTCACTGAGGACCCCACGTGACTCCAGGCTCCAGGGCCGAAGCGGAGCAGGAAAGGACCA
 GCTCAGGACCCAGGTGGTAGGGCTACAAGCAGAGAACCTGTTGGCATCGTGTGAACGTCAA
 GCTGAACCTCCAGGGCTCTCAGAAGATTCTTGTGAAATTAGGATGGCTGAAGGAGAACAGAAGGGTCAGT
 AAAAGAAATCAAGCATAGTCCCTGGGCCACGAGAACAGTCTCCACTGGCACGGCATTGTCTAAATATAGGAGCAG
 ATCTGCAGATGGGCCAAGAATTACTTCGAACATGAGGAGTTACTGTGAGCCAGCTCTGCTGTGCCTAAGGGA
 AGGGAAATCAGAAGGTGGAGAGACTTGAAGTTGCACTCAAGGAGGCCAAAGAAAGAGTTCAAGATTGAAAAGAA
 ACAAGTAATCGTCTGAGATTGAAACCCAGACAGAGGGGAGCACAGAGAAAGAGAATGATGAAGAGAAAGGCC
 GGAGACTGTTGAGCGAAGTGGAGCAGTGAACCTCCAGGTGACATCTGTTAAGGAGCTCAAGAGGCTCA
 TACAAAACCTCAGCGAAGCTGAGCTAATGAAGAAGAGACTTCAAGAAAAGTGTCAAGGCCCTGAAAGGAAAATT
 TGCAATTCCATCAGAGTTGAATGAAAAGCAAGAGCTTATACTAACAAAAAGTTAGAGCTACAAGTGGAAAG
 CATGCTATCAGAAATCAAATGGAACAGGCTAAAACAGAGGATGAAAAGTCCAATTAACTGTGCTACAGATGAC
 ACACAACAAGCTCTCAAGAACATAATAATGCATTGAAAACAATTGAGGAACAAAGAAAAGAGTCAGAAAA
 AGTGGACAGGGCAGTGTGAAGGAACTGAGTAAAAACTGGAACCTGGCAGAGAACGGCTCTGGCTTCAAACAGCT
 GCAAATGGATGAAATGAAGCAAACCATGCCAACAGCAGGACCTGGAAACCATGACCATCCTCAGGGCTCA
 GATGGAAGTTTACTGTTCTGATTTCATGCTGAAAGAGCAGCAGGAGAGAAAATTGAGGAAAGGAGCAACT
 GGCATTGCGAGTGGCAGTTCTGCTGAAAGAGAATGATGCTTCAAGACGGAGGCCAGGCAGTCCTGATGGAGAT
 GCAGAGTCGTATGGCGAGAACAGTGAACCTGACCAGCAGGTTACCTGTTCAAAGAGGAGCTGAGGACAG
 GGACTGGCGAACAGCGGAATATTGGATTCACTCTGCCAAAGTGTGGAGAGGTTCTGCTGACATAGACAC
 GTTACAGATTACGTGATGGATTGCATCATTTAAGTGTTGATGTACCTCCAAAAGTGTGGTAAATGTCA
 GATTTTCTCCAAGAGTTGTCTTGTGTTATTGTTACTCAAAATATTGCTCATTATTCTGTTN
 NNN
 NNN
 NNN
 NNN
 NNN
 TGGTGGAGTTCCATCAACTCGCAAAGTAGAATCCTTACCTACTACTCTCTGATAATAATTAAATTTTTAT
 GTTGGTTGATGCGAGCAGCTGCACTGCTCATGCAGTTAGCATGTCAGACATGACAAAGTTCATGTAA
 TTAGATGGAAGAACCTCACTGATTAAATTAAAGAACCTTTAGGGATGCAAGAACATGAAGTGGCCACAGTAT
 GTGCTGTTTGTGAGCATTTAAAACGAATTGAGTTGTTCTTCATTAAATGGATCTGTTGGAGGTTA
 TGTGTTGATGTTGAGTTATTGCAAGGCCACAATAATTACAAAGTTTACATAGGCAGTTAGCCTTACTT
 AATATCAAGACAAGTAAAAAATTGGCATCGATGAAACCGATAACATTGGCTCATTGGATTCTTACCCAT
 TCACAGTGTAAAGAAGTTACCTCATGCTTCACTGACCTGAGGCCAGTGTGGCTGTACAGTAGATAATTAAAT
 TTCTAAAAGAACAGCTGCCATTTCCTAGGTTATCTTCATAATCACAAGAATTAGTGATGGCA
 AAATAAAATTGCTTATGAATCTTACATTGTTATATGATTAATATCATCATATATATTCTGATTAA
 GCTCATTGGCTCATTAAAGCTGTATACTTAGTCATATATCTTCAATTAGTTCTATGGATATGAGCAGATCCCT
 TTACTGGAGGCCAGTATGTGCTGTGAGTTAGAAGTCATTCTGCTGAGAAGGTGAATAGTAGGGATTGCCT
 TGTTTGTAAGTCTACAATTGCCAAGAGTAAACACTGGACCCAGCTGAAAGTAAACAGTGTGTTATGCA
 TTGAGATACTAAAGCATTAAAGAAAAATTAAAGATCTTTGTTAAATTGTCTTAAGAATCTCCTAGA
 CAAACTGACTATACACACACACTCAATAAGAATCAAATAGTTCATTATCTCATGCCAAGAGAACACA

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FIGURE 443B

TGATACAAATTCAACAGTAATTCAATTAAACGAGTCCCCTACCACACCTCAGGGAGAATATTGTTAAAGACAT
TTCTAAAGTAACTCTGACATTTTACTTTCTTGTTATGGTTCTAATGTAAATTTCCCTTATCATCTTA
TACTGGAGGAAATATATTCTATAGTCCTAACAGAGAAGGAAACCAAATGGTTCACATTAAAGTTATTGG
ACATAATCCTTTACTTGTCAAGTAAAATATTCAAGCAAAGCCAGACTGAAATAATAACATGAATGGGCTTAT
TAAA

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FIGURE 444

MSHQPLSCLTEKEDSPSESTGNGPPHLAHPNLDFTPEELLQQMKELLTENHOLKEAMKLNNQAMKGRFEELSAW
TEKQKEERQFFEIQSKEAKERLMALENEKLKEELGKLKGKSERSSEDPTDDSRPRAEAEQEKDQLRTQVVRL
QAEKADILLGIVSELQLKLNSGSSEDSFVEIRMAEGEAEGSVKEIKHSPGPTRTVSTGTALSKYRSRSADGAKNY
FEHEELTVSQLLCREGNQKVERLEVALKEAKERVSDFEKTSNRSEIETQTEGSTEKENDEEKGPETVGSEVE
ALNLQVTSLFKELEAQHTKLSEAELMKRQLQEKCQALERKNSAIPSELNEKQELVYTNKLELOVESMLSEIKME
QAKTEDEKSKLTVLQMTHNKLLQEHNNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQLQMDDEMKT
IAKQEEDELETMTILRAQMEVYCSDFHAERAAREKIHEEKEQLALQLAVILLKENDAFEDGGRQSLMEMQSRHGART
SDSDQQAYLVQRGAEDRDWRQQRNIPIHSCPCKCGEVLPDIDTLQIHVMDCII

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FIGURE 445

GGCACGAGGGCTGCCCTCCGCCACCGCCGCCGGCAGGTCCCTGGTCAGCGTCCCATCCGGTCG
GGAGTTCTCCAGCGGCACGATGCCAGGAAACAGTGACCCCTGAGCGAAGCCAAGCCGGCGCAGGAACCTC
TGCAATGTCCCCATCACCTCTCAGCTGCCACTGAAAAGGAGGACAGCCCCAGTGAAAGCACAGGAATGGACC
CCCCCACCTGGCCCACCCAAACCTGGACACGTTACCCGGAGGAGCTGCTGCAGCAGATGAAAGAGCTCCTGAC
CGAGAACACCAGCTGAAAGAAGCCATGAAGCTAAATAATCAAGCATGAAAGGGAGATTGAGGAGCTTCGGC
CTGGACAGAGAAACAGAAGGAAGAACGCCAGTTTGAGATACAGAGCAAAGAGCAAAGAGCGTCAATGGC
CTTGAGTCATGAGAATGAGAATTGAGGAAGAGCTGGAAAACTAAAAGGGAAATCAGAAAGGTCACTGAGGA
CCCCACTGATGACTCCAGGCTCCAGGGCCGAAGCGGAGCAGGAAAGGACCAGCTCAGGACCCAGGGTGA
GCTACAAGCAGAGAAGGCAGACCTGTTGGCATTGTGAACTGCAGCTCAAGCTGAACCTCCAGCGCTCCTC
AGAAGATTCTTGTGAAATTAGGATGGCTGAAGGAGAAGCAGAAGGGTCAGTAAAGAAATCAAGCATAGTCC
TGGGCCACGAGAACAGTCTCCACTGGCACGGCATTGTCTAAATATAGGAGCAGATCTGAGATGGGCAAGAA
TTACTTGAACATGAGGAGTTAAGTGTGAGCCAGCTCTGCTGCTTAAGGAAAGGAAATCAGAAGGTGGAGAG
ACTTGAAGTTGCACTCAAGGAGGCCAAGAAAGAGTTTCAGATTTGAAAAGAAAACAAGTAATCGTTCTGAGAT
TGAAACCCAGACAGAGGGAGCACAGAGAAAGAGAATGATGAAGAGAAAGGCCGGAGACTGTTGGAAGCGAAGT
GGAAGCACTGAACCTCCAGGTGACATCTGTTAAGGAGCTCAAGAGGCTCATACAAAACCTCAGCGAAGCTGA
GCTAATGAAGAAGAGACTTCAAGAAAAGTGTCAAGGCCCTGAAAGGAAAATTCTGCAATTCCATCAGAGTTGAA
TGAAAAGCAAGAGCTTGTAACTAACAAAAGTTAGAGCTACAAGTGGAAAGCAGTGTCTACAGATGACACACA
GGAACAGGCTAAACAGAGGATGAAAAGTCAAATTAACTGTGCTACAGATGACACACAAGCTTCTCAAGA
ACATAATAATGCATTGAAAACAATTGAGGAACTAACAAGAAAAGAGTCAGAAAAGTGGACAGGGCAGTGCTGAA
GGAACGTGAGTAAAAACTGGAACCTGGCAGAGAAGGCTCTGGCTCCAAACAGCTGCAAATGGATGAAATGAAGCA
AACCATGGCAAGCAGGAAGAGGACCTGGAAACCATGACCATCCTCAGGGCTCAGATGGAAGTTACTGTTCTGA
TTTCATGCTGAAAGAGCAGCGAGAGAAAATTGAGGAAAAGGAGCAACTGGCATTGCAGCTGGCAGTTCT
GCTGAAAGAGAATGATGCTTCAAGACGGAGGCAGGCTCTGATGGAGATGCAGAGTCGTCACTGGGCGAG
AACAAAGTGACTIONTGTGACCGAGCAGGCTTACCTTGTCAAAGAGGAGCTGAGGACAGGGACTGGCGAACAGCGGAA
TATTCCGATTCTGCTGCCCAAGTGTGGAGAGGTTCTGCCTGACATAGACACGTTACAGATTCACTGATGGA
TTGCATCATTTAAGTGTGATGTACACCTCCCCAAAAGTGTGAAATGTCAGATTTTCTCAAGAGTTG
TGCTTTGTGTTATTGTTCACTCAAATATTGCTCATTATTCTGTTAAAAGAAAACAGGCCGG
GCACAGTGGCTCATGCCTGTAATCCCAGCACTTGGGAGGTGAGGTGGATCACTGGGTCAGGGTTGA
GACCAGCTGGCAACATGGCGAACCTGTCTACAAAATTACAAAATTAGCCGAGCATGGTGGCGCATGC
CTGTAGTCGAGCTACTCGCGAGGTTGAGGCAGGAGATTGCTGAAACCAGGAAGTGGCAGTTGCAGTGAGCCG
AGACGACACCACTGCACCTCCAGCCTGGGTGACAGAGGGAGACTCTGTCGAAAGAAAAAAAAAAAAAA
AA

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FIGURE 446

MSHQPLSCLTEKEDSPSESTGNPPHLAHPNLDFTPEELLQQMKELLTENHQLKEAMKLNNQAMKGRFEELSAW
TEKQKEERQFFEIQSKEAKERLMALENEKLKEELGKLKGKSERSSEDPTDDSRPRAEAEQEKDQLRTQVVRL
QAEKADLLGIVSELQLKLNSSGSSEDSFVEIRMAEGEAEGSVKEIKHSPGSTRTVSTGTALSHYRRRSADGAKNY
FEHEELTVSQLLLCLREGNQKVERLEVALKEAKERVSDFEKKTSNRSEIETQTEGSTEKENDEEKGPETVGSEVE
ALNLQVTSLSFKELQEAHTKLSEAEIMKKRLQEKCQALERKNSAIPSELNEKQELVYPNKKLELQVESMLSEIKME
QAKTEDEKSKLTVLQMTHNKLLQEHNNALKTIEELTRKESEKVDRAVLKELSEKLELAEKALASKQLQMDEMKT
IAKQEEDELETMTILRAQMEVYCSDFHAERAAREKIHEEKEQLALQLAVLLKENDAFEDGGRQSLMEMQSRHGART
SDSDQQAYLVQRGAEDRDWRQRNIPIHSCPCKGEVLPDIDLQIHMDCII

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FIGURE 447

GGTTTGTGTAGAGAGGCCTGCAGAGCCGTTGCCGGAGTCACCTGCTGCCTGTTCTGCCCTCCCAGGGAGGCC
CCGCCGCTGTCGCCGTCGACTGCCATGGAAGTGCAGAAAGAGGCACAGCGCATCATGACCCCTGTCGGTGTGGAA
GATGTATCACTCCCGATGCAGCGGGCTGCCGCTGCACCGGAGTCAGCTGTCAGCTGCTGGTCATGCGCAG
CGCCCGGGAGCTCACCTCTCGGCCAAGGTGGAGGCCCTCGAGCCGAGGTGTCGTTGCCGCCGCCCTCCCTC
TGACCCCTGCCCTGCACCCGCCCGAGAAGCCGAGTCCACGGCGAGACAGCAGCCCCGACGGTGAGCACCCGTT
TCCGGAGCCAATGGACACGCAGGAGGCCGACAGCCGAGGAGACCTCCGCTGCTGTGCCCCGCCGCCCAA
AGTCAGCCGCAAACGACGCAGCAGCAGCTGAGCCGACGGGGAGCTGGACTGGTCCCAGCAAGAAAGCCG
TCTGGAAGAAAAGGAAGAAGAGGGAGGGAGCGTCATCCGAAGTCGCCATGCCCTGAGCCCCCTCCGGCCAAGC
GGAGGGGCCCTTCCAACCTGGCCCGCTCTGCAGAGGCCCTCTCCGCCCTCTGAACCTGCAGCCCCGCC
CCCTCCGACGGCCGCCGCCGCGTGCAGGGCAAAGCCGCTTGCCGCCGCCGGACAGCATGCTAACGTGCTCGT
GCCGGCCGTGGTGGCCTTCTGAGGACCCGAGCGCGCTGCCAGAGCGCGCTCGAACCGTGGCC
AGGGCGCAGACCTGAGGCAGGCCACCCCCCTCCATCTGGGGAAAGCGCCCGCAAACCGTGGAGAGAACCGC
CCGCCCGGCTGCTGAGAGGCCGGAGAGGACTCTGTCCTCCGGAGCCATGCCCTCAGTGTGCAGGGACGGCA
CCGAGGAGTCTGAGCCGGCCGGCGCCTCCGAGAGACCTGCGCCACAGGTGCTGTCTAGTGGACTGGGA
CGTGAACCTTCGCTCTCTGGACTGGAGAAGGGAGGCTGGGTGTTGTTTTGTTGTTGTTGTTGTTGTT
TTGTTTTAAAGATCTCTCAGGGTCGACTTCATTTGACTGTGGCTGTGCTGCCCTTCAGGTTTCAAGGTTTCA
AGAGTTGGTTTGCCTTCCAACCTCGAGAATTCCAGGCACCTCCCTCCCGCTGACATACTGTATAAA
GCCGTATCGTGCCTCATGGGCAGCGTGGGAGCTCTGTCGCCCTGGCTGGGTGTCGGCCTGGAGGAAGG
TCCTGGGGCGTGCACTGCCCTGGCAGTGGGGAGGAGACTGGCCTGAGTTACTCACCCCCCGTGTGCTGGT
AATGTCCCGCGTCTGCACTTCCGGTGGAGCGGGACTGATCTACTTCACTTCAAGTTTCTCATCT
GCATTAGAGGTCCCAGTAGGTTCCAGGTTCCAGCGTGCCTCCCTCAGACACACGGACACAATCAGCCGAGA
AGTTCCCTGGTCTGAATCACGAGAATGGGAGGGGTGGGGGGTGTCACTGGAAAGGCATAAGGCTGAGCTGAGACC
AGTTGCTGGTAAACTGGGCCAATCTGGGAGGGGAACATCCTGCCAGGGAGTTCTGAGGGTCTGCTTGT
ACCTTCGTGCCTGGATTCTTTAACCTCGTCTACCTGGCTTTGTTAGAAATGTCAGATAGGAAAATAAAA
ACCATTTGAGT

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FIGURE 448

MEVQKEAQRIMTLSVWKMYHSRMQRGGRLHRSLQLSLVMRSARELYLSAKVEALEPEVSLPAALPSDPRLHPPR
EAESTAETATPDGEHPFPEPMDTQEAPTAEETSACCAPRAKVSRKRRSSSLSDGGDVGLVPSKKARLEEKEEEE
GASSEVADRLQPPPQAEAGAFPNLARVLQRRFSGLLNCSPAAPPTAPPACEAKPACRPADSMLNVLVRAVVAF

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FIGURE 449

GCCGGCCGAACCCAGACCGAGGTTTACAAGCAGAGTCAGGCAGACTGGGCCAGAACCGCGACCTCCGCAACC
TTGAGCAGCATCCGTGGAGTCGCCTGCGCAGCTACGACCGCAGCAGGAAAGCGCCGCCAGGCCAGCTGTG
GGCCGGACAGGGACTGGAAGAGAGGACCGCGTCGAGTAGGTGTGACCAAGCCCTGGCAACGAGAGCGTCTACCCC
GAACCTCTGCTGGCCTTGAGGTGGGAAGCCGGGAGGGCAGTTGAGGACCCCGCGGAGGCCTGACTGGTGAG
CGGGCAGGCCAGCCTCCGAGCCGGTGACACAGGTTAAAACATGAATCCTACACTCATCCTGCTGCCTTT
GCCTGGGAATTGCCTCAGCTACTCTAACATTGATCACAGTTAGAGGCACAGTGGACCAAGTGGAAAGCGATGC
ACAACAGATTATAACGGCATGAATGAAGAAGGGATGGAGGAGAGCAGTGTGGAGAAGAACATGAAGATGATTGAAC
TGCACAATCAGGAATACAGGGAAAGGGAAACACAGCTCACAAATGCCATGAACGCCCTTGGAGACATGACCAGTG
AAGAATTCAAGCAGGTGATGAATGGCTTCAAAACCGTAAGCCAGGAAGGGAAAGTGTCCAGGAACCTCTGT
TTTATGAGGCCCGAGATCTGTGGATTGGAGAGAGAAAGGCTACGTGACTCCTGTGAAGAACATCAGGTGAGTGTG
GTTCTTGTGGCTTTAGTGTACTGGTGTCTTGAGGACAGATGTTCCGAAAAGTGGAGGCTATCTCAC
TGAGTGAGCAGAATCTGGTAGACTGCTCTGGCCTCAAGGCAATGAAGGCTGCAATGGTGGCTAATGGATTATG
CTTCCAGTATGTCAGGATAATGGAGGCCTGGACTCTGAGGAATCCTATCCATATGAGGCAACAGAACATCCT
GTAAGTACAATCCCAAGTATTCTGTGCTAATGACACCCGGCTTGTGGACATCCCTAACGAGGAGAACGCCCTGA
TGAAGGAGTTGCAACTGTGGGCCCTTCTGTGCTATTGATGTCAGGTGATGAGTCCTCTGTTCTATAAAG
AAGGCATTATTTGAGCCAGACTGTAGCAGTGAAGACATGGATCATGGTGTGCTGGTGGCTACGGATTG
AAAGCACAGAACATCAGATAACAATAAATATTGGCTGTGAAGAACAGCTGGGTGAAGAACATGGGCATGGTGGCT
ACGTAAAGATGGCAAAGACCGGAGAACCATGTGGAATTGCTCAGCAGCCAGCTACCCACTGTGTGACTG
GTGGACGGTGTGAGGAAGGACTTGACTGGGATGGCGCATGCATGGAGGAATTCACTTCAAGTCTACCGCC
CCGCTGTGTCGGATACACACTCGAATCATTGAAGATCCGAGTGTGATTGAATTCTGTGATATTTCACACTGGT
AAATGTTACCTCTATTAAATTACTGCTATAAATAGGTTATATTGATTCACTACTGACTTTGCATTTCG
TTTTAAAAGGATGTATAAATTTCACCTGTTAAATAAATTCAATGTA

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FIGURE 450

MNPTLILAAFCLGIASATLTDFDHSLEAQWTKWKAMHNRLYGMNEEGWRRRAVWEKNMKGIELHNQEYREGKHSFTM
AMNAFGDMTSEEFRQVMNGFQNRKPRKGKVFOEPLFYEAPRSVDWREKGYVTPVKNQGQCGSCWAFSATGALEGQ
MFRKTGRLISLSEQNLVDCSGPQGNEGCGNGGLMDYAFQYVQDNGLDSEESYPYEATEESCKYNPKYSVANDTGF
VDIPKQEKAFLMKAATVGPISVAIDAGHESFLFYKEGIYFEPDCSSEDMDHGVLVVGYGFESTESDNNKYWLVKN
SWGEEWMGGYVKMAKDRRNHCGIASAASYPTV

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FIGURE 451

AATTCCCGGAAATCATCGGAATCCTCACCAATGGCATCCAGCCCAGCGTCGGCGAGGCAATGATCCTCTC
ACCTCCAGCCCTGCCGAAGCTCCCGCGTACTGATGCCCTCACCTCAGCCCTGCCGTGACCTCACCATT
GAGGATGAGTCCGAGGGCTCTAGGCACAGAGGGCCCTGGAGGAAGAAGAGGATGGAGAGGAGCTCATTGGA
GATGGCATGGAAAGGGACTACCGGCCATCCCAGAGCTGGACGCCTATGAGGCCAGGGACTGGCTCTGGATGAT
GAGGACGTAGAGGAGCTGACGCCAGTCGAAGGGAGGCAGCAGACGCCATGCCACGGTACCGGGAGCTGG
CCGGGCTGGCGATGCCGTGGCTCTGTATGACAGCGATGAGGAGGACGAGGCCCTGCCCGCAAGC
GCCGCCAGTGGAGGCCAGGGACGGAGGACGCCAGAGTATTGAGAGCATGCCAGAACCTGGAGGAT
CTCAAAGGCCACTCTGTGCCGAGTGGGTGAGCATGCCGCCCGCTGGAGGATCCACCAACCGCTCAAGAAC
TTCTGCCACTCACGTCACGCCAGGCCAACAGCTTCAAGGAGCGATCAGCAGCATGTGCAAAGAGAAC
CGTGAGAGCCTGGGTGAACTATGAGGACTTGGCAGCCAGGGAGCACGTGCTGCCACTTCCTGCCCTGAGGCA
CCGGCGGAGCTGCTGCAGATCTTGATGAGGCTGCCCTGGAGGTGGTACTGCCATGTACCCAAAGTACGACCGC
ATCACCAACCACATCCATGCCATCTCCACCTGCCCTGGTGGAGGAGCTGCCCTGCCAGCTGCAT
CTGAACCAGCTGATCCGACCCAGTGGGTGGTGACCAGCTGCACTGCCCTGCCAGCTCAGCATGGTCAAG
TACAACGTCAACAAGTCAATTCTGCTCTGGCTCTTGCCAGTCCAGAACCCAGGAGGTGAAACCAGGCTCC
TGTCTGAGTGCCAGTGGCCGGCCCCTTGAGGTCAACATGGAGGAGACCATCTACAGAACTACAGCGTATC
CGAATCCAGGAGAGTCCAGGCAAAGTGGCGCTGGCGCTGCCAGTCCAGAACCCAGGAGGTGAAACCAGGCTCC
CTGGTGGACAGCTGCAACGCAGGAGACGAGATAGAGCTGACTGGCATCTACAAACAACATGATGGCTCCCTC
AACACTGCCAATGCCCTCTGCTTGCACGTGCAACCACGTGCCAAGAAGGACAACAGGTT
GCTGTAGGGAACTGACCGATGAAGATGTGAAGATGATCACTAGCCTCTCAAGGATCAGCAGATGGAGAGAAC
ATCTTGCCAGCATTGCTCTTCCATCTATGGTCACTGAAGACATCAAGAGAGGCCCTGCTCTGGCCCTGTCGGA
GGGGAGCCAAAAACCCAGGTGGCAAGCACAAGGTACGTGGTATATCAACGTGCTCTGTGCGGAGACCCCTGGC
ACAGCGAAGTCGAGTTCTCAAGTATTGAGAAAGTGTCCAGCCAGGCCATCTCACCAACTGCCAGGGGGCG
TCGGCTGCGCTCACGGCTATGTCCAGCGCACCTGTCAGCAGGGAGTGGACCTGGAGGCTGGGGCCCTG
GTTCTGGCTGACCGAGGAGTGTGTCATTGATGAATTGACAAGATGAATGACAGGACAGAACCCAGCATCCAT
GAGGCCATGGAGCAACAGAGCATCTCATCGAAGGCTGGCATGTCACCTCCCTGCAGGCTCGCTGCCAGGTC
ATTGCTGCCGCCAACCCATAGGAGGGCGTACGACCCCTCGTCACTTCTGAGAACGTGGACCTCACAGAG
CCCATCATCTCACGCTTGCATCCTGTTGAGGGACACCGTGGACCCAGTCCAGGACAGATGCTGGCC
CGCTCGTGGTGGCAGCCACGTCAAGACACCACCCAGCAACAAGGAGGAGGAGGGCTGCCAATGGCAGCGCT
GCTGAGCCGCCATGCCAACACGTATGGCGTGGAGGCCCTGCCAGGAGGTCTGAAGAAGTACATCATCTAC
GCCAAGGAGAGGGTCCACCCGAAGCTCAACCAGATGGACCGAGACAAGGTGGCCAAGATGTACAGTGCACCTGAGG
AAAGAATCTATGGCGACAGGAGCATCCCCATTACGGTGGCACATCGAGTCACTGAGTCATGGCGAGGCCA
CGCGCATCCATCGGGACTATGTGATCGAAGACGACGTCAACATGCCATCCGCGTATGCTGGAGAGCTT
CATAGACACACAGAAGTTAGCGTCATCGCAGCATGCGCAAGACTTTGCCCTACCTTCAATTCCGGCGTGC
AACAAATGAGCTGCTCTTCAACTGAAGCAGTTAGGGAGCAGGTGACATATCAGCGCAACCGCTTGGG
GCCAGCAGGACACTATTGAGGTCCCTGAGAAGGACTTGGTGGATAAGGCTGTCAGATCAACATCCACACCTC
TCTGCATTTATGACAGTGAAGCTCTCAGGATGACAAGTTAGCTGCCAGCAGCTGAAAAGGAAATGATCCTGAG
CAGITCTGAAGGCCCTATGCCATCCATAAGGATTCTGGTTGGGATCTGGTTGGGCGTCACTGCTCTGTGCTT
TATGGACACAAAACAGAGCACTTGATGAACCTGGGACTAGGGTCAAGGCTTATAGCAGGATGTCTGGCTGCA
CCTGGCATGACTGTTGTTCTCAAGCCTGCTTGTGCTTCTCACCTTGGGTGGATGCCCTGCCAGTGTGTC
TTACTTGGTGTGAACATCTGCCACCTCCGAGTGCTTGTCTCCACTCAGTACCTGGATCAGAGCTGCTGAG
TTCAGGATGCCCTGCGTGTGGTTAGGTGTTAGCCTTCTACATGGATGTCAGGAGAGCTGCCCTTGGCGT
GAGTTGCGTATTAGGCTGCTTGTGCCAGAGAGCTGGTGAAGATGTTGTAATCGTTTCACTGCTGCTGCA
TCCTGCAGGTTCTGTGCCCTGTGGAGAGAGGCCAGCAGTGCAGCGCAGCGTCTGGCTCCAGTC
AGGGGTGGGATGTGAGTCATGCCATTACACTGCCACAGTTATCAGCTGCCATTGCTCCCTGTCTGTTCCC
CACTCTTATTGCACTGGTTGGTTCTGTAGTTAATTAAAGTTGAATAAAATATAAAAAAA
AAAA

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FIGURE 452

MASSPAQRRRGNDPLTSSPGRSSRTDALTS offense PGRDLPPFEDESEGLLGTEGPLEEEEDGEELIGDGMERDYRAI
PELDAYEAEGLALDDEDVEELTASRREAADGPCGTGSPWGLGACAVGSCMTAMRRTRSA LPASAASGAGTEDG
EEDEQMIESIENLEDLKGVHSVREWVSMAGRLEIHHRFKNFRTHVD SHGHNVFKERISDMCKENRESLVVNYED
LAAREHVLAYFLPEAPAELLIQIFDEAALEVVLAMYPKYDRITNHIHVRISHLPLVEELRSIRQLHLNQLIRTSGV
VTSGTGVLPQLSMVKYNCNCNFVLGFCQSQNQEVKPGSCPECQSAGPFEVNMEETIYQNYQRIRIQESPGKVA
ARRLPRSKDAILLADLV DSCNAGDEIELTGIYHNNYDGSNTANGFPVFATVILANHVAKKD NVKAVGE LTDEDV
KMITSLSKDQQIGEKIFASIAPSIIYGHEDIKRGPA LALFGGEPKNPGGKHKV RGDIINVLLCGDPTAKSQFLKYI
EKVSSRAIFTTGQGASAVAVTAYVQRHPVSREWTLEAGALVLADRGVCLIDEFDKMDQDRTSIHEAMEQQSISI
SKAGIVTSLQARCTVIAAANPIGGRYDPSLTFS ENVDLTEPIISRF DILCVVRDTVDPVQDEM LARFVVVGSHVRH
HPSNKEEGLANGSAAEPAMPNTYGVEPLPQEVLKKYIIYAKERVHPKLNQMDQDKVAKMYSSDLRKESMATGSIP
ITVRHIESMSHGGPRAHPSAGLCDRRRQHGHPRDAGELHRHTEVQRHRSMRKT FARYLSFR RDNNELLFILK
QLVAEQVTYQRNRFGAQQDTIEVPEKDLVDKARQINIHNL SAFYDSELFRMNKF SHDLKRKMILOQF

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FIGURE 453

CCGGTGCCGGCGAACATGGCGGCGGCCACCGGACCCTCGTTGGCTGGGAATGAAACCCTGAAGGTGCCGCTGGCCTTGCCTTGAAACCGCTGTGAGCGGCTGCGAAGAACCCCTGCTGTGCAGGCCGGCTCCATCGTGGTCCTGCAGGGCGGGAGGAGACTCAGCGCTACTGCACCGACACCGGGCTCCTCTCCTCCAGGAGTCCTTCTTCACTGGCGTTCGGTGCACTGAGCCAGGCTGCTATGGTGTATCGATGTTGACACTGGGAAGTCGACCCCTGTTGTGCCAGGCTTCCCTGCCAGCCATGCCACCTGGATGGAAAGATCCATTCCAAGGAGCACTTCAAGGAGAA GTATGCCGTGGACGACGTCCAGTACGTAGATGAGATTGCCAGCGTCTGACGTACAGAAGCCCTGTGCTCCT CACTTTGCGTGGCGTCAACACGGACAGCGGCACTGAGGGAGCCCTCCTTGACGGCATCAGCAAGTTGA AGTCAACAATACCAATTCTCACCCAGAGATGTTGAGAGCCGAGTGTAAAGACGGATATGGAGCTGGAGGTTCT GCGCTATACCAATAAAATCTCAGCGAGGCCACCGTAGGTAATGAAGGCTGAAAAGTGGGAATGAAAGAATA TGGGTTGGAAAGCCTCTCGAGCACTACTGCTACTCCCAGGGCGCATGCCACAGCTCCTACACCTGCATCTG CGGCAGTGGTGAGAACTCAGCGTGTACACTACGGACACGCCGGAGCTCCAACGACCGAACGATCCAGAATGG GGATATGTGCGCTGTTGACATGGCGGTGAGTATTACTCTGTCGCTTCCGACATCACCTGCTCCTTCCCCGCAA CGGCAAGTTCACTGCAGACCAAGAGCCGTCTATGAGGCAGTGTGCTGAGCTCCGTGCCGTATGGGTGCCAT GAAGCCAGGTGACTGGTGGCTGACATGACCGCCTGGCTGACCGCATCCACCTGGAGGAGCTGGCCACATGGG CATCCTGAGCGGACCGTGACGCCATGGTCCAGGCTCACCTGGGGCCGTGTTATGCCCTACGGGCTTGGCCA CTTCTGGGCATTGACGTGACGACGTGGAGGCTACCCAGAGGGCGTGGAGCGCATCGACGAGCCGGCCTGCG GAGCCTGCGCACTGCACGGCACCTGCAGCCAGGATGGTGTCTACCGTGGAGCCGGCATCTACTCATCGACCA CCTCCTGGATGAGGCCCTGGCGACCCGGCCGCTCCTCCTTAACCGCAGGTCTGCAGCGCTTGCAGG TTTTGGGGGGTCCGCATCGAGGAGGACGTCGTGGTGATCGACAGCGGCATAGAGCTGCTGACCTGCGTCCCCCG CACTGTGGAAGAGATTGAAGCATGCACTGGCAGGCTGTGACAAGGCCCTTACCCCTCTGGCCCCAAGTAGAG CCAGCCAGAAATCCCAGCGCACCTGGGGCCTGGCCTGCAACCTCTTGTGATGGCAGCCTGCTGGTCAGC ACTCCAGTAGCGAGAGACGGCACCCAGAATCAGATCCCAGCTCGGCATTGATCAGACCAACAGTGTGTTCCCGGGGAGGAAACACTTTTAATTACCCCTTTGCAGGCACCACCTTAATCTGTTTATACCTTGCTTATTAAA TGAGCGACTAAAATGATTGAAAATAATGCTGTCTTAGTAGCAAGTAAAATGTGTCTGCTGTCAATTATATT CCTTTCCCAGGAAAGAAGCATTCTGATACTTCTGTCAAAATCAATATGCAGAATGGCATTGCAATAAGAG GTTCCCTAAAATG

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FIGURE 454

MAAATGPSFWLGNETLKVLPLALFALNRQRLCERIRKNPAVQAGSIVVIQGGEETQRYCTDTGVLFLOESFFHWAF
GVTEPGCYVIDVDTGKSTLFVPRLPASHATWMGKIHSKEHFKEKYAVDDVQYVDEIASVLTSQLPSVLLTLRGV
NTDSGSVCREASFDFGISKFEVNNTILHPEIVESRVFKTDMELEVLRYTNAKISSEAHREVMKAVKVGKEYGLES
FEHYCYSRGGMRHSSYTCICCGSGENSAVLHYGHAGAPNDRTIQNGDMCLFDMGGEYYVASDITCSFPRNGKFTA
DQKAVYEAVLLSSRAVMGAMKPGDWWDIDRLADRIHLEELAHMGILSGSVDAMVQAHLGAVFMPHGLGHFLGID
VHDVGGYPEGVERIDEPLRSLRTARHLQPGMVLTVEPGIYFIDHLLDEALADPARASFLNREVLQRFRGF GGVR
IEEDVVVIDSGIELLTCVPRTVEEIEACMAGCDKAFTPFGPK

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FIGURE 455A

GTGATAACCCCCGTGAGGACAGGCCATGGCTACGTATACGAGTACCCATCCAGATACAAAAGGACGTCTATGAT
 ATCCCTCCTCTCATACCCTCAAGGGTATACGACATCCCTCCCTCATCAGAAAAGGCCCTGTGTTTCAGTT
 CCAGTGGGAGAGATAAAACCTCAAGGGTGTATGACATCCCGCTACAAAAGGGTATATGCCATTCCGCCCTCT
 GCTTGCCGGATGAAGCAGGGCTTAGGGAAAAAGACTATGACTTCCCCCTCCATGAGACAAGCTGGAAGGCCG
 GACCTCAGACCGGAGGGTTATGACATTCCCAACCTGCACCAAGCCAGCAGGGAAAGGACCTTCATGTAAAA
 TACAACGTGACATTCCAGGAGCTGCAGAACCGGGCTCGAAGGCACCAGAGCCTGTCCCCGAATCACCCACCC
 CCGCAACTCGGACAGTCAGTGGCTCTCAGAACGACGCATATGATGTCCCCGAGGCCTCAGTTCTGAGCCA
 CCAGCAGAAACCAGTGAGAAAGCAAACCCCCCAGGAAAGGGATGGTGTATGATGTCCCTGCATAACCCGCCA
 GATGCTAAAGGCTCTGGGACTTGGTGGATGGATCAACCGATTGTCTTCTCAGTACAGGCAGCACCCGGAGT
 AACATGTCCACGTCTCCACCTCCAAAGGAGTCCTCACTGTCAGCCTCCCAGCTCAGGACAAAGGCTCTTC
 CTGGATCCAGACACAGCTATTGAGAGACTTCAGCGGCTCCAGCAGGCCCTGAGATGGGTGTCAGCCTAATG
 GCACTGGTCACTACCGACTGGCGGTTCAGGATATATGAAAGACACATCAATGAAATACGCACAGCAGTGGAC
 AAGGTGGAGCTGTCCTGAAGGAGTACCTCCACTTGTCAAGGGAGCTTGCAGGAAATGCTGCCGCCGGAA
 CTCATCCTCCACAACAAGATGAAGCGGGAGCTGCAACGAGTTGAAGACTCCCACAGATCTGAGTCAAACCCAGC
 CATGACTTAAATGAGTGCAGCTGGTCCCTGAATATCTGGCATCAACAAGCCCCAGAACAGTGTGACGATCTG
 GACCGGTTGTGATGGTGGCAAAGACGGTCCCCGATGACGCCAGCAGCTCACCACAACCATAACACCAACGCA
 GAGGCCCTTTCAGACCCGGGCTGGCAGCTGCATCTGAAGAATGGCCGGAGAGCATCATGAACACTCAACGGAG
 TACCCACACGGTGGCTCCAGGGACAGCTGCTGCATCTGGTACCCAGGACAAAGGCCAGGCCACAACAAGGCACTG
 CCCCCAGGCCCTGAGCAAGGAGCAGGCCCTGACTGTAGCAGCAGTGTGGTCTGAGAGGGCTGGATGGATGAC
 TAGATTACGTCCACCTACAGGGTAAGGAGGAGTTGAGAGGCAACAGAAAGAGCTATTGAAAAGAGAAATATC
 ATGAAACAGAACAGATGCACTGGAAACATCATCAGCTGAGCCAGTCCAGCTGTTGAAACAAGAGATTACAAAG
 CCCGTGGAGAATGACATCTGAAGTGGAAAGGCCCTCTCAGGCCCTACCCACAAACAGTGGCGTGAGTGCCTCAG
 GATCGGCAGTTGCTGTGCTTCACTATGACCAATGTGAGACCCATTTCATTCCCTCTCAACGCCATGACGCA
 CTCTCAGTTGTGTCAGCTGCCAGCCCCCGCAATCTCGTGGCACACAGCAAGTTGTCATCCTCAGTGCA
 CACAAACTGGTGTTCATTGGAGACACGCTGACACGGCAGGTGACTGCCAGGACATTGCAACAAAGTCATGAAC
 TCCAGCAACCAGCTGCGAGCAGCTCAAGACCATAGTCATGGCAACCAAGATGCCGCCCTCATTACCCAGC
 ACCACGCCCTGAGGAAATGGTGCACCAAGTGCAGACGCCATTCTAGAAATGCCAGCTGTCAAGCGCTTTG
 CTGGAGATGGCAACGTTCTGAAAGAAAAAGAGGAAGGGACTGGTTAACGGTTACTAAGGAAACTGGAA
 ATACTGTCTGGTTTGTAAATGTTATCTATTGTTGAGATATTATATAAAATGAAATATTAAACATTAA
 TGGTCACTTCAGAAATTGAGGAGCTGGAGAGGAAATCTTCTTCTGAGTGGTTCTTGTATGCCATGATTGATG
 TATACATAGAAGTATCTGAGACATAAAACTGTACAGAAAACCTTGCCACGTGCTTTGTATGCCATGATTGATG
 TTGTTGTTGAGATGTTGTCATGCAATTGTTAACACCATGAAATTACGAAGCACCTTAGTAAGCACC
 TTCTAATGCTGCATTGTTGTTGTTAAAACATACCGCTGGTTATAATATTGTTCTCCACGTCCTG
 ATGATTCTGAGCCTGGCACTCCAAATCTGGAAAGCATAGTTATTGCAAGTGTACCTCCAAATCATGAGG
 CATAGCATGACTTATTCTGTTGGAAAACCTCTTCAAAACTGACCATCTTAAACACATGATGCCAAGTGGCC
 AAAAGCCCTCTGCGGAGCAAATTGAGAATATATGTTGAGGACACAGTTAGGATTGGTTCAAAACTGAGAGACAGCTACAATA
 GAGAGACCTGTTGAGGACACAGTTAGGATTGGTTCAAAACTGAGAGACAGCTACAATA
 AAAGGAGAGCAATTGCTCCCTGGGGCTGTTCAATCTGCAATTGAGGTTGAGTGGTTCAAGTGTGAGGTTCAA
 AAAGATTTTGTGAGTTGAAACCATATTGCAAGTAAAGGAGTACAGACTATGATTGTTCA
 CAAAATAGGGAAATGGTTGATCCGCCAGTTGCAAGTAGAGGCCCTTGTACTCTTAATATTCACTTGGTCTA
 CTACCCCCATTACCTGAGGGAAACTGGCCAGGTCCCTGATCATGGAACATAGAGCTACCAAGGACATATCCTGCT
 CTCTAAGGGAAATTATTGCTATCTGCACCTTCTTAAACATCACATATGCAAGACCTGACACTCAAGAGTGGCTA
 GCTACACAGAGTCCATCTAATTGCAACTCCCTGTGGCCAGTGTGATAACCCCTCCACTATCTCACAGATA
 GTCACAGCGTCCATTCCATAGTCTGTCCTCACATCTGTTAGTATTGACACAGCACAGACACCACAAGCCATCA
 GGTTCTCATGGGGCAGGTGAAATACTCTACCCCATGGTAAATGTATTGACATATTACCAAGAGAAGAAGCAG
 ATTATCTATGATCTTGGCCCAGTTCTATTGAGTATTGCAACTTGGAAACATGTTTTATTG
 CAATATATGCCTGACTGAATTAAAGCTTGCTTGTAAACCAACCAATCATTGGAACAGAAAAGGATTAAAAAA
 CAAGAATGCACTGAGTGAATTTTAAACATGAGTCAAGAGTGGCTTTCAAAAC

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FIGURE 455B

AACTGCTATTATAATTCTCAAAGTCCTACTTGCCAAAAGAAGAGATTAAGTCATACATTACATTACAAGGAAAT
GTTCATGTGGGAAGAGGGTTGCTGAAAATCAACAACGCTTGAAGTTAAAAGTGTGTCTTAGATTTCATTGT
ATAATGTGTATTCTTAGGAGATGGCTGACTTGATTGATCTACGCTAAGTGGAGACATTCACATTTAACATTAAAACC
AAATGTTCAATCTGTATTACTCTTGCCGTCTGTATGTAGAGGCTATTTAAATCATTAAATTTAGATCTC
TGTTTCATA

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FIGURE 456

VITPVRTGHGYVYEYPSRYQKDVKYDIPPSHTTQGVYDIPPSAKGPVFSPVGEIKPQGVYDIPPTKGVYAI
PPSACRDEAGLREKDYDFPPPMRQAGRDLRPEGVYDIPPTCTKPGKDLHVKYNC
DIPGAAEPVARRHQSLSPNHPP
PQLGQS
VGQS
QN
DAYDV
PRGV
QF
LEPPA
ETSE
KANP
QERDG
VYDV
PLHN
PPDA
KGSR
DLVD
GINRL
SFSTG
STRS
NMSTS
SSKE
SSLS
ASPA
QDKRL
LDP
TAIERL
QRLQQ
ALEMG
VSSL
MALV
TTDW
RCYGY
MERH
INEIRT
AVD
KVELFL
KEYLHF
VKGAV
ANAACL
PELILHN
NMKREL
QRVEDSH
QILSQ
TSHD
LN
NECS
WSLN
ILAIN
KPNKC
DDL
DRFVM
VAKTV
PDDAK
QLTTT
INTNAE
ALFRPG
PGSLHL
KNGP
ESIMN
STEY
PHGGSQ
GQLLHP
GDHK
AQAHNK
AL
PPGLS
KEQAP
DCSS
SDG
SER
SWM
DDYDV
HVLQ
GKEE
FERO
QQKEL
LEKEN
IMK
QNK
MQL
EHH
HQL
SQF
QLE
QEIT
KV
PVEND
ISKWK
PSQSL
PTTNS
GVSAQ
DRQ
LLCF
YYDQC
ETHF
ISLL
NAID
ALF
SCV
SSAQ
PPRIF
VAHS
KFV
ILSA
HKLV
FIGDT
LTRQ
VTAQ
DIRNK
VMNS
SNQL
CEQL
KTIV
MATK
MAAL
HYP
STAL
QEMV
HQVT
DL
SRNA
QLFK
RSL
LEMATF

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CGCAGGGGACCGTGTCCGCCGTCTCCGCCGCATCTTCCACCCCGGCCGCCGCAGCTCCCCGCGCTCGTGCA
CCGCCGCCCGCGTCCACCCCTCAGGCCACCGCCATGCGGGAGATCGTCACCTGCAGGCCAGTGC
AGATCGGGGCAAGTTGGGAGGTTATCAGTGACGAACATGGCATGCACCCACAGGCACATACCATGGGGACA
GTGACCTGCAACTGGAGAGGGATCAACGTGTACTACAACGAGGCCACAGGAGGAAATTATGCCCCAGAGCGGTGC
TGGTGGACCTGGAACCCGGCACCATGGACTCTGTCGTTCTGGCCCCCTCGGTAGATCTTCGGCCGGACA
ACTTCGTGTTGGCCAATCCGGAGCCGGCAACAACTGGCAAAGGGGCACTACACGGAGGGCGCAGAGCTGGAC
CTGTCTGGACGTACTCCGGAAGGAGGCCGAGAGCTGCGACTGCCTTCAGGGCTTCAAGCTGACCCACTCGCTGG
GGGGTGGCACGGGGTCCGGAATGGGCACGCTCATCAGTAAGATCCCGAGGGAGTCCCAGACCGCATCATGA
ACACCTCAGCGTGGTGCCTCGCCCAAAGTGTCAAGACACGGTGGAGGCCCTACAACGCCACGCTGTCTGTGC
ACCAGCTGGTGGAGAATACGGATGAGACCTACTGCATGACAACGAGGCACTCTACGACATCTGTTCCGCACCC
TCAAGCTGACCACCCCCACCTACGGGACCTCAACCACCTGGTGTGGCCACCATGAGCGGGTCACCACTGCC
TGCCTCCGGGCCAGCTGAACGCCACCTGCGCAAGCTGGCGTCAACATGGTCCCTTCCCGCCGTGCACT
TCTTCATGCCCGGCTTCGCAACCCCTGACCAGCGGGGCAAGCCAGCAGTACCGGCCCTGACGGTGCCGAGCTCA
CCCAGCAGATGTCATGCCAAGAACATGATGGGGCGTGCACCCGCCACGGCCGTAACCTGACCGTGGCCG
CCGTGTTCCGGGCCATGTCCATGAAGGAGGTGGAGCAGCAGATGCTGAGCGTGCAGAGCAAGAACAGCAGCT
ACTTCGTGGAGTGGATCCCCAACACGTGAAGACGGCCGTGCGACATCCCGCCCGCGCCGTAAGATGGCCG
CGACCTCATCGGCAACAGCACGCCATCCAGGAGCTGTTCAAGCGCATCTCGAGCAGTTCACGCCATGTTCC
GGCGCAAGGCCCTTGCACTGGTACACGGCGAGGGCATGGACGAGATGGAGGTTACCGAGGCCGAGAGCAACA
TGAATGACCTGGTATCTGAGTACCAAGCAGTACCAAGGACGCCACGGCCGAGGAGGGCAGTTGAGGAGGGCG
AGGAGGAGGTGGCCTAGGGCTGCCATCGCTTCCACCTGTCAGGCTTCTGACCTTGTACCCCTGAG
CCCCCATCTGAACCTAGAGCCCCGTTCCCAAGGCTGACTCCCCGCTGACCCATAACAATACCTTGG
AGCTCGCTTACCTCTGGCTACTTCATCTCCGACCCCTGGCTCCCTTGAGGCCATAATTATTTAACCCCTT
GAGCTCTCCAACCTGACATTCCCAGGAGGAGCCCGCTCACCCCTCTGACTCTGGAAACCGCACCTTAA
TTTGAGACCTCCTCACCCCTGACTCTGCTCACCTTGACCTCTGCCCGGATGAATCCCATTACCTCT
AGACCTATAAGTCTGGTTATGTTGACCCCTCCCTGAGCTGCACCTCACCGCTGACCTTGCCTCACCTTA
ACCCCCACCTGAGCCCCAGCTCCTACCTCTGACCCCAACTCTCTTGTACCTGACATCCCCTCTGACTCCAAC
TTCTCTTCAACCTCTATGAGTCCCATTACTCTACACCTGCAAGTCCTGGTTATATTGGACCCCTCCCTCC
GAGCTGCAGTTCACCTTGACCTTGCCCTCACCTTCACCCCCCACAGCGTCAGCTCTACCTCTGACC
CCAGCTCTCTGATTCCCACAGGCCCATGCACTCTCCCTGCCTCAGCTCCCTGAGCCCTGCCGACCTTAGC
TTATCTGGAGAGAAACAAGGCCCTGGCCTGTGAGGAAGAGAGGTCAACCCCTACCCCTCCCGCTTCC
CCTCACCTCAATAAAATAATTGTTGTCATGGAAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 458

MREIVHLQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLERINVYYNEATGGNYVPRAVLVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDAVLVVRKEAESCDCCLQGFQLTHSLGGGTGSGMGTLL
LISKIREEFPDRIMNTFSVVPSPKVSDTVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTCLRFPQQLNADLRKLAVNMVPFPR LHFFMPGFAPLTSRGSQYRALTVPELTQQMFDAKNMM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLSVQSKNSSYFVEWIPNNVKTAVCDIPRGLKMAATFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGE GMDEMEFTEAESNMNDLVSEYQQYQDATAEEGEFEEEAEVEA

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FIGURE 459A

TGAGGAATCAACAGCCGCCATCTTGTCGCGGACCCGACCAGGGGCTTCGAGCGCAGTACTCGGCCCCGCCGGTC
 CCGGGCCCCACAACCGCCCGCTCGCTCCTCTCCCTCGCAGCCGGCAGGGCCCCCGACCCCGTCCGGGCCCTC
 GCCGGCCCCGGCCGCCGTGCCGGGGCTGTTTCGAGCAGGTAAAATGGCTGAGAACTTGCTGGACGGACCG
 CCCAACCCAAAAGAGCAAACTCAGCTGCCCGTTCTCGCGAATGACAGCACAGATTGGATCATTGTT
 GACTTGGAAAATGATCTCTGATGAGCTGATAACCAATGGAGGAGAATTAGGCCTTTAACAGTGGAACCTT
 GTTCCAGATGCTGCTCCAACATAAACAAACTGTCGGAGCTCTACGAGGAGGCAGCGGCTAGTATCAACCCA
 GGAATAGGAAATGTGAGGCCAGCAGCCCCGTGCAGCAGGGCTGGTGGCCAGGCTCAAGGGCAGCCGAACAGT
 GCTAACATGGCCAGCCTCAGTGCATGGCAAGAGCCCTCTGAGCCAGGGAGATTCTCAGCCCCCAGCCTGCCT
 AAACAGGCAGCCAGCACCTGGGCCACCCCCGCTGCCTCCAAGCACTGAATCCGCAAGCACAAAAGCAAGTG
 GGGCTGGCAGTAGCAGCCCTGCCACGTACAGACTGGACCTGGTATGCAATGCTAACTTTAACAGACC
 CACCCAGGCCCTCAATAGTAACCTGGCCATAGCTTAATTAACTCAGGCTTCACAAGGGCAGGCAGTCATG
 AATGGATCTCTGGGCTGCTGGCAGAGGAAGGGAGCTGGAATGCCGTACCCACTCCAGCCATGCAGGGCGCC
 TCGAGCAGCGTGCTGGCTGAGACCTAACGCAAGGTTCCCCGAAATGACTGGTACGCGGGACTGAACACCGCA
 CAGGCAGGAGGCATGGCCAAGATGGGATAACTGGGAAACACAAGTCCATTGGACAGCCCTTAGTCAAGCTGG
 GGGCAGCCAATGGGAGCCACTGGAGTGAACCCCCAGTTAGCCAGCAAACAGAGCATGGTACACAGTTGCCACC
 TTCCCTACAGATATCAAGAATACTCAGTCACCAACGTGCCAAATATGTCAGATGCAAAACATCAGTGGAAATT
 GTACCCACACAAGCAATTGCAACAGGCCACTGCAAGGAGCAAGCAAACGGAGAGGTTGGGCCCTGCTGCCAT
 CTACTGCTTCATGCTCATAAAGTGTCAAGAGACGAGAGCAAGCAAACGGAGAGGTTGGGCCCTGCTGCCAT
 TGTCGAACCATGAAAACGTTTGAATCACATGACGCATTGTCAGGCTGGAAAGCCTGCCAAGTTGCCATTGT
 GCATCTTCACGACAAATCATCTCATTGGAAGAACTGCACACGACATGACTGTCCTGTTGCCCTCCCTTGAAA
 AATGCCAGTGACAAGCAAACAAACCATCTGGGCTCCAGCTAGTGGAAATTCAAACACAATTGGTCT
 GTTGGCACAGGGCAACAGAAATGCCACTCTTAAGTAACCCAAATCCCAGACCCAGCTCCATGCAGCGAGCC
 TATGCTGCTCTCGGACTCCCTACATGAACCCAGCCCCAGACGCACTGCAGCTGCCCTAGGTTCTGGCCAGCAACCA
 GCACAGCCTCAAACCCACCAGCAGATGAGGACTCTAACCCCCGGAAATAATCAAATGAAACATTCCAGCAGGA
 GGAATAACAAACAGATCAGCAGCCCCAAACTTGATTTAGAATCAGCTTCCGACTCCCTGGGGCCACAAAC
 CCACTGATGAACGATGGCTCCAACCTGGTAACATTGGAACCCCTAGCACTATAACCAACAGCAGCTCCCTTCT
 AGCACCGGTGTAAGGAAAGGCTGGCAGAACATGTCACTCAGGACCTGGAGCCATCTAGTCATAAAACTGTC
 CAAGCCATCTCCAAACACCTGATCCCGCAGCTCAAAGGATGCCAGTGGAAACCTGGTAGCCTATGCTAAG
 AAAGTGGAAAGGGACATGTACGAGTCTGCCAACAGCAGGGATGAATATTACCTTATTAGCAGAGAAAATCTAC
 AAGATAACAAAAGAAACTAGAAGAAAAACGGAGGTGGCTTACATAAAACAAGGCATCTGGGAACCAAGGCCAGCC
 TTACCAAGCCCCGGGGCTCAGCCCCCTGTGATTCCACAGGCACAACCTGTGAGACCTCCAATGGACCCCTGTCC
 CTGCCAGTGAATGCCATGCAAGTTCTCAAGGGATGAATTCAACCCATGCTTGGGAACGTCAGTTG
 CCACAAGCACCCATGGGACCTCGTCAGCCTCCCCAATGAACCAACTCTGTCAGATGAACAGCATGGCTCAGTG
 CCAGGGATGCCATTCTCTCCGAATGCCCTAGCCTCCGAACATGATGGTGACACACCAACACATGATG
 GCCCAGGCCGCCGCTCAGAGCCAGTTCTGCCACAGAACCCAGTTCCCGTATCCAGCGGGCGATGAGTGTGGC
 ATGGGGCAGCCGCCAGCCAAACAGGCGTGTACAGGGACAGGTGCCTGGTGTGCTCTTCTTAACCCCTCAAC
 ATGCTGGGGCCTCAGGCCAGCCAGCTACCTTGCCTCCAGTGCACACAGTCACCAACTGCACCCAAACACCGCTCCT
 GCTTCCACGGCTGCTGGCATGCCATCTCCAGCACAGCACACCACCTGGGATGACTCCTCCCCAGCCAGCAGCT
 CCCACTCAGCCATCAACTCCTGTGTCCTCCGGCAGACTCCCACCCGACTCCTGGCTAGTGCCTAGTGC
 ACCCAACCCAGAGCACCCCTACAGTCCAGGCAGCAGCCAGGCCCAGGTGACCCCGCAGCTCAAACCCAGTT
 CAGCCCCCGTCTGGTACCCCTCAGTCATGCCAGCAACAGCCAGCCTGTGACGCCAGCCTCTGGCACA
 CGCTTCCAGGCAGCAGCCAGCATTGATAACAGAGTCCCTACCCCTCCTGGTGGCCAGCGCAGAAACCAAT
 TCCCAGCAGCCAGGACCTGACGTACCTGTGCTGGAAATGAAGACGGAGACCCAAAGCAGAGGACACTGAGCCCGAT
 CCTGGTGAATCCAAAGGGGAGGCCAGGTCTGAGATGATGGAGGAGGATTGCAAGGAGCTTCCAAGTAAAGAA
 GAAACAGACATAGCAGAGCAGAAATGAAACCAATGGAAGTGGATGAAAAGAAACCTGAAGTGAAGTGAAGT
 AAAGAGGAAGAAGAGAGTAGCAGTAACGGCACAGCCTCTCAGTCAGTCAACATCTCCTGCAGCCGCCAGAGTCATTA
 TTTAAACCAAGAGGGAGTTACGCCAGGCCCTCATGCCAACCTAGAAGCAGTGTATGACAGGACCCAGAGTCATTA
 CCTTCCGGCAGCCTGTAGATCCCCAGCTCCTCGGAATTCCAGACTATTTGACATCGTAAAGAATCCCATGGAC

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FIGURE 459B

CTCTCCACCATCAAGCGGAAGCTGGACACAGGGCAATAACCAAGAGCCCTGGCAGTACGTGGACGACGTCTGGCTC
 ATGTTCAACAATGCCCTGGCTCTATAATCGCAAGACATCCCGAGTCTATAAGTTTCAGTAAGCTTGAGCAGAGGTC
 TTTGAGCAGGAAATTGACCCGTATGCAGTCCCTGGATATTGCTGTGGACGCAAGTATGAGTTTCCCCACAG
 ACTTTGTGCTGCTATGGGAAGCAGCTGTGACCATTCCTCGCGATGCTGCCTACTACAGCTATCAGAATAGGTAT
 CATTCTGTGAGAAGTGTTCACAGAGATCCAGGGCGAGAATGTGACCCCTGGGTGACGACCCCTCACAGCCCCAG
 ACGACAATTCAAAGGATCAGTTGAAAAGAAAAATGATACTTAGACCCCGAACCTTCGTTGACGAC
 GAGTGTGGCCGGAAGATGCATCAGATTGCGTTGCACTATGACATCATTGGCCTTCAGGTTTGTGTGCGAC
 AACTGCTGAAGAAAATGGCAGACCTCGAAAAGAAAACAAATTCACTGCTAAGAGGCTGACGACCAAGACTG
 GGAAACCACCTTGGAAAGACCGAGTGAACAAATTTCGCGGCCAGAATCACCTGAAGCCGGGAGGTTTGTGTC
 CGAGTGGTGGCCAGCTCAGACAAGACGGTGGAGGTCAAGCCGGGATGAAGTCACGGTTGTGGATTCTGGGAA
 ATGTCATGAATCTTCCCATACTGAACCAAAGCTCTGTTGCTTGAGGAAATTGACGGCTGGATGTCCTGCTT
 TTTGGAATGCACGTCCAAGAATACGGCTCTGATTGCCCTCCAAACACAGAGGCGTGTACATTCTTATCTG
 GATAGTATTCAATTCTCCGCCACGTTGCCTCCGCACAGCCGTTACCATGAGATCCTTATTGGATATTAGAG
 TATGTGAAGAAAATTAGGGTATGTGACAGGGCACATCTGGCCTGTCCTCCAAGTGAAGGAGATGATTACATCTC
 CATTGCCACCCACCTGATCAAAAATACCCAAAGCAAAACGACTGCAGGAGTGGTACAAAAGATGCTGGACAAG
 GCGTTGCAGAGGGATCATCCATGACTACAAGGATATTCAAACAAGCAACTGAAGACAGGCTCACCAGTGCC
 AAGGAACGTGCCCTATTGAAGGTGATTCTGGCCAATGTGTTAGAAGAGAGCATTAAGGAACATAGAACAGAA
 GAAGAGGAGAGGAAAAGGAAGAGAGCACTGCAGCCAGTGAACCACTGAGGGCAGTCAGGGCAGCAGCAAGAAT
 GCCAAGAAGAACAAACAAGAAAACCAACAAGAACAAAAGCAGCATCAGCCGCCAACAAAGAACAGCCCAGC
 ATGCCAACGTGTCATGACCTGTCCAGAAGCTGTATGCCACCATGGAGAACGACAAGGAGGTCTTCTCGTG
 ATCCACCTGCACGCTGGCCTGTCATCAACACCCCTGCCAGAGAACAGCAGTGGAGTTCTCCTCTTGCCGCTCC
 CTCATGGATGGCGCAGCCTCCTCACCTGCCAGAGAACAGCAGTGGAGCTGCACACCCAGGGCAGGACCCTGCTCAGCTGTGAC
 AAGTGGTCCACGCTCTGCATGCTGGTGGAGCTGCACACTGTGCGAGGACTACGACCTCTGCATCAACTGCTATAAC
 ACGAAGAGCCATGCCATAAGATGGTGAAGTGGGGCTGGCCTGGATGACGAGGGCAGCAGCCAGGGCAGGCC
 CAGTCAAAGAGCCCCCAGGAGTCACGCCGGTGAGCATCCAGCGCTGCATCCAGTCGCTGGTGACGCGTGCAG
 TGCCGCAACGCCAACTGCTCGCTGCCATCCTGCCAGAACAGATGAAAGCAGGAGTGGCAGCACACCAAGGGTGC
 CGCAAGACCAACGGGGCTGCCGGTGTGCAAGCAGCTCATGCCCTGCTGCTACCACGCCAACGACTGCCAA
 GAAAACAAATGCCCTGTGCCCTTGCTCAACATCAAACACAAGCTGCCAGCAGCAGATCCAGCAGCACGCC
 CAGCAGGCCAGCTCATGCCGGCGGATGCCACCATGAACACCCGCAACGTGCCAGCAGAGTCTGCC
 CCTACCTCAGCACCGCCGGACCCCCACACAGCAGCCAGCACCCCCAGCAGCCGAGCCCCCTGCCAGGCC
 CAACCCCTCACCGTGAGCATGTCACCAGCTGGCTCCCCAGCGTGGCCGGACTCAGCCCCCACCACGGTGTCC
 ACAGGGAAAGCCTACCAGCCAGGTGCCGGCCCCCAGCCCCCTCTGCAGCGTGGGAAGCGGCT
 CGGCAGATCGAGCGTGGAGGCCAGCAGCAGCAGCACCTGTACCGGGTGAACATCAACACAGCATGCC
 CGCACGGGCATGGGGACCCCCGGGAGCCAGATGGCCCCCGTGAACCTGAGCAGCAGGCTGAATGTGCC
 GGGCCCGTCATGCCAGCATGCCCTCCGGCAGTGGCAGCAGCGCCCTTCCCAGCAGCAGCCATGCCAGGC
 TTGCCAGGCCTGTGATATCCATGCAGGCCAGGGGGCGTGGCTGGCCGGGATGCCAGCGTGCAGCCACCC
 AGGAGCATCTCACCCAGCGCTTGCAAGACCTGCTGCGGACCCCTGAAGTCGCCAGCTCCCCCTCAGCAGCAACAG
 CAGGTGCTGAACATTCTCAAACACCGCAGCTAATGGCAGCTTCTCATCAAACAGCGCACAGCCAAAGTACGTG
 GCCAATCAGCCGGCATGCAGCCCCAGCCTGCCAGTCCAGCAGCCAGCAGCACGCCCTGGCATGCAC
 CAGCAGCCCAGCCTGCAGAACCTGAATGCCATGCAGGCTGGCGTCCGCGGCCGGTGTGCCCTCACAGCAGCAG
 GCGATGGGAGGCCTGAACCCCCCAGGGCAGGCCTGAACATCATGAACCCAGGACACAACCCAAACATGGCGAGT
 ATGAATCCACAGTACCGAGAAATGTTACGGAGGCAGCTGCTGCAGCAGCAGCAGCAACAGCAGCAGCAACA
 CAGCAACAGCAGCAGCAGCAAGGGAGTGCAGGCATGGCTGGGGCATGGCGGGCACGGCCAGTCCAGCAGCCT
 CAAGGACCCGGAGGCTACCCACCGGCCATGCAGCAGCAGCAGCAGCAGCAGCATCTCCCCCTCCAGGGCAGC
 TCCATGGGCCAGATGGCGCTCAGATGGGACAGCTTGGCAGATGGGGCAGCCGGGCTGGGGCAGACAGCACC
 CCCAACATCCAGCAAGCCCTGCAGCAGCGGATTCTGCAGCAACAGCAGATGAAGCAGCAGATTGGTCCCCAGGC
 CAGCCGAACCCCATGAGCCCCCAGCAACACATGCTCTCAGGACAGCCACAGGCCTCGCATCTCCCTGGCCAGCAG

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FIGURE 459C

ATGCCACGTCCCTAGTAACCAGGTGCGGTCTCCAGCCCCGTCCAGTCTCCACGGCCCCAGTCCCAGCCTCCA
CATTCCAGCCCGTCACCACGGATAACAGCCCCAGCCTCGCCACACCACGTCTCACCCAGACTGGTTCCCCCAC
CCCGGACTCGCAGTCACCATGGCCAGCTCCATAGATCAGGGACACTGGGAACCCGAACAGAGTGCAATGCTC
CCCCAGCTGAACACCCCCAGCAGGAGTGCCTGTCAGCGAAGTGTCCCTGGTCGGGACACCACGGGGACACG
CTAGAGAAGTTGTGGAGGGTTGTAGCATTGTGAGAGCATCACCTTCCCTTCATGTTCTGGACCTTTGT
ACTGAAAATCCAGGCATCTAGGTTCTTTATTCTTAGATGGAAGTGCAGTCCGAGCCATGGAAGGGTGGATT
GATGTTAAAGAAACAATACAAAGAATATATTGTTAAAAACCAAGTTGATTTAAATATCTGGTCTCTCT
TTGGTTTTTTGGCGGGGGGGTGGGGGGGTCTTTTCCGTTGTTGTTGGGGGAGGGGGGTT
TTGTTGGATTCTTTGTGTCATTGCTGGTGACTIONGCCTTTAACGGAAAAACAAGTTCAATTATATT
CATATTTTATTGTATTCAAGACTTAAACATTATGTTAAAGTAAGAAGAAAATAATATTCAAGACT
GATTCCCTGAAATAATGCAAGCTTATAATGTATCCGATAACTTGTGATGTTGGGAAGATTCTTCTATAGT
GAACCTGTGGCGTCTCCAGTATTACCCCTGGATGATAGGAATTGACTCCGGCGTGCACACACGTACACACCCA
CACACATCTATCTACATAATGGCTGAAGCAAACCTGTCTGCAGATGTAGAAATTGTTGCTTGTCTCTG
ATAAAACGGTTTAGACAAAAAATAGGGATGATCACTCTAGACCATGCTATGTTACTAGAGAAGGCCTC
TTTCTTCTTCTATGTGAAACTGAAATGAGGAAAAGCAATTCTAGTGTAAATCATGCAAGCGCTCTAATTCT
ATAAAATACGAAACTCGAGAAGATTCAACTGTATAGAATGGTAAATACCAACTCATTTCTTATATCATATTG
TTAAATAAAACTGTGTGCAACAGACAAAAAGGGTGGCTTCTGAAATTGATGTACATGGTATTAACACTTAGTGT
TCGGGGTTTTGTTATGAAATGCTGTTCAACATTGTATTGGACTATGATGTGTTTCCCCATTGTAT
ATAAAGTACCGCTTAAATTGATATAAATTACTGAGGTTAACATGTATTCTGTTAAAGATCCCTGTAA
GAATGTTAAGGTTTATTATATATTGTTGGTCTGTTGTAaaaaaaaaaaaaaaa

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FIGURE 460

MAENLLDGPPNPKRAKLSSPGFSANDSTDFGSLFDLENDLPDEIPNGGELGLLNSGNLVPDAASKHKQLSELLRGGSGSINPGIGNVSASSPVQQGLGGQAQGQPNSANMASLSAMGKSPLSQGDSSAPSPLPKQAASSTSGPTPAASQA
LNPQAQKQVGLATSSPATSGTGPICMNNANFNQTHPGLLNSNGHSLINQASQGQAQMNGSLGAAGRGRGAGMPYPTPAMQGASSSVLAETLTQVSPQMTGHAGLNTAQAGGMAKMGITGNTSPFGQPFQAGGQPMGATGVNPQLASK
QSMVNSLPTFPTDIKNTSVTNVPNMSMQTSVGIVPTQAIATGPTADPEKRKLIQQQLVLLHAHKCQRREQANG
EVRACSLPHCRTMKNVLNHMTHCQAGKACQVAHCASSRQIISHWKNCRHDPCVCLPLKNASDKRNQQTILGSPA
SGIQNTIGSVGTQQQNATSLSNPNPIDPSSMQRAYAALGLPYMNQPQTLQPQVPGQQPAQPQTHQQMRTLNLPLG
NNPMNIPAGGITTDQQPPNLISESALPTSLGATNPLMDGSNSGNITLSTIPTAAPPSTGVRKGWHEHVTQDL
RSHLVHKLVQAIFPTPDPAALKDRRMENLVAYAKKVEGDMYESANSRDEYYHLLAEKIYKIQKELEEKRRSRHLHK
QGILGNQPALPAPGAQPPVIPQAQPVRPPNGPLSLPVNRMQVSQGMNSFNPMSLGNVQLPQAPMGPRAASPMNHS
VQMNSMGSPGMAISPSRMPQPNNMGAHTNNMMAQAPAQSQFLPQNFPSSSGAMSGVMGQPPAQTVGSQGQVP
GAALPNPLNMLGPQASQLPCPPVTQSPFHPTPPPASTAAGMPSLQHTTPGMTPQPAAPTQPSLPSVSSGQPTPT
PTPGSVPSATQTQSTPTVQAAAQAQVTPQPTPVQPPSVATPQSSQQQPTPVHAQPPGTPLSQAAASIDNRVPTB
SSVASAETNSQQPGDVPVLEMKTETQAEDTEPDGESKGEPRSEMMEDLQGASQVKEETDIAEQKSEPMEVDE
KKPEVKVEVKEEEESSSSNGTASQSTS PQPRKKIFKPEELRQALMPTLEALYRQDPESLFRQPVDPQLLGIPDY
FDIVKNPMDLSTIKRKLDTGQYQEWPWQYVDDVWLMFNNAWLYNRKTSRVYKFCSKLAEVFEQEIDPVMQSLGYCC
GRKYEFSPQTLCCYGKQLCTIPRDAAYSYQNRYHFCEKCFTEIQGENVTLGDDPSQPQTTISKDQFEKKNDTL
DPEPFVDCKECGRKMHQICVLYHYDIIWPSGFVCDNCLKTRPRKENKFSAKRLQTTRLGNHLEDRVNKFLRRQN
HPEAGEVFVVASSDKTVEVKPGMKSRFVDSGEMSESFPYRTKALFAFEEIDGVDVCFFGMHVQEYGSDCPPPNT
TRRVYISYLDIHFPRCLRTAVYHEILIGYLEVKKLGVTGHIWACPPSEGDDYIFHCPPDQKIPKPKRLQ
EWYKKMLDKAFARIIHDXKIDFKQATEDRLTSAKELPYFEGDFWPNVLEESIKELEQEEEERKKEESTAASETT
EGSQGDSKNAKKNNKTKNKSSISRANKKKPSMPNVSNDSLSQLYATMEKHKEVFFVIHLHAGPVINTLPPIV
DPDPLLSCDLMDGRDAFLTLARDKHWEFSSLRRSKWSTLCMLVELHTQGQDRFVYTCNECKHHVETRHCTVCED
YDLCINCYNTKSHAHKMKWGLGLDDEGSSQGEPKSKSPQESRRVSIQRCIQSLVHACQCRNANCSPSCQKMKR
VVQHTKGCKRKTNGGCPVCKQLIALCCYHAKHCQENKCPVFCNLNIKHKLRQQQTQHRLQQALMRRRMATMNTR
NVPQOSLSPSTSAPPGTPTQQPSTPQTPQPPAQPQPSPVSMSPAGFP SVARTQPPTVSTGKPTSQVPAPPQAQ
PPAAVEAARQIEREAQQQHLYRVNINNSMPPGRTGMGTPGSQMAPVSL

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FIGURE 461A

GAGGATGCAGAGTGGGAGACCTAAACCGTCTGATCTGGCTGCTAACAGCAGTGACTGACGACCACCCATTAAAC
ACCAGCGAGTAGCGTTGCTCACGGCTTAGGATAAGAAGCCTGGA**ATGGT**CCCCCTCCGCCGGAGAAGAAG
CCAGACGGTCATCCTCCACCTGGCTGGCAGAGCTACCTGTCGCCTCAGGGCCGGTACTATGTCAACACGAC
CACCAATGAGACCACCTGGGAAACGTCCCAGCAGTTCTCTGGGATTCCAGCCAGCCCTGGCTCTCACAGGAGCTC
TCTGCCTCCAACAGTGAATGGATACCACGCATCAGGGACCCAGCGCACCCCTCCAGAGACTGCCCACATGAGTGT
CCGAAAATCCACCGGTGATTCCCAGAACCTGGGATCCTCATGCCAAGCAAAAGCAGAGCAAGGAAAACACCAT
ACAATAAAACTGTGTGACGTTCCCTCACCCAGACACGATGCCGAACAGCAGCTGCTGAAACCAACCGAGTGGAG
CTACTGCGACTACTTCTGGGCTGATAAGAAGGACCCCCAAGGCAACGGCACGGTGGCTGGGTTGAACACTTGCT
CCAGAAACAGCTGAAGGGCAAACAAATGCAAGGAAATGCAAGAATTCCATCCGGAAAGGATAAAGATTGAAGA
AGACTATGCGAAGAACCTAGCTAAGCTCTCAGAACTCCTGGCTCACAGGAGGAAGGCTCCTGGGAGAGGC
GTGGGCCAGGTGAAGAAGAGCCTGGCGGACGAAGCAGAACGTTCACCTCAAGTTCTGCAAGCTCACAGCGA
GGTGGAGAAGCCCTGATGAACCTCCGTGAGAACTCAAGAAAGACATGAAGAAGTGCACCCACATTGCCGA
CCTTCGCAAGCAGCTGCCAGCCGCTATGCCCTGGGAGAACGGCCGGAAAGGCCCTCACAGCGGGAGAGAGA
CCTGGAGATGAAGACCCAGCAGCTGGGAGATCAAGCTGAGCAACAAGACAGAGGAGGACATCAAGAAGGCCGGAG
AAAGTCCACACAGGCTGGAGACGACCTCATGCCCTGTGGATCTCTACAACCAGGCCAGTCAAATGGTTGA
AGAGATGGTGAACCACTGGAGCTAGAGCGGCTGGAGGTAGAGATGATCCGGCAGCACCTGTG
CCAGTACACGCAGCTGCCATGAAACAGACATGTCACCAAAGCACAGTCAGGCCGTGGATCAGCTGCTTCG
AAAAGTGGACCCGCCAAAGACAGGGAGCTGTGGGTCAGAGAGCACAAGACGGCAACATCCGCCCTGGACAT
GGAGAT**CTAG**ATGGGCTGTGAGCTCGGGGGGCTCTGCTGGGGAGGGGGCTGGCTCCACCATGGGCCA
TGCCGAGTGGATGCCCTCCTGGGCACTGAGGAGAGGGAGAGAGCTGGTATTCCAGAAGGGT
GACCCGGACAGCCTAGCTGGGGCTCCCCATATTCCAGGCCAGAACAGACACAGGCCACAGGCCCTGCCCTGTCT
CTGAGGCTGAAGACCCCCCTGACTCCATGCTGTGCTTGCCCTGGAAGCCCCAAGGCTCTCCAGCTGGCTC
CTTGCCGAGTTTGTAAGGGCTACTGTCACATGCTGTGCTTGCCCTGGAAGGAGGCTCTGCTCTAAGCAGGCTGGACAT
GGTAGAAGGTGCCATTCAAGCTCACAGCCGACCCAGAACCTTGCAAGCCCTCTTATTTCCTCCATT
GCATTCTGGGAGTCCACATCTGGCTTCAGCCACTGTCATCACCAAGGGTTTAGGAGGAAGGCTGGCTCC
TGTCTCCCAGACCCACCATGCCCTGGAGAGGTCAAGGATGAAACTACCTCATTGCCAAATTAGCCCCAATTGAG
CGCTGAATCGTGTCCATGAGATCAGGCCATCTGTAAGCTCCTCTGGAATGCCAATCCATCCTCCCCCA
GCTGCTCCTCGGGAGGCCCTGCCCTGCCACCCCTGCCAGCCCTCCAGTCTCATTAGAGGAAGCTTCAAAGT
TCTCAGTTATCAAGACCTCATCCAGCTCGCAAAGGCTCAGGGATGGAACAAACACCAGCTCGTCTCAGAGGCC
AGCAAGCTGGGCCTGTCCGCCACGGTGCCTGTGCACCTTGGGTGCCCTGGGGCACTCTCCGGGCCGCC
CACACAGGCTCTAATGGGGCCGGTCAGTCTACATGTGAGATGGGTTAGGCAAGTCTTGCCATCCCCCAG
ATGGCTCTGTCTTGTGATGGCAGGGCTGGACTGCTGTCCCTGTACAGTTCTGTCACTGGTGGGCACT
GGACAGGCATAGCAGACTCTTGTGCCACACTAGGTTGTCGCCTTCAGGCAGTGTCCGCCACCTTGCTTC
CCGCTCCTCTGGACATTCCAGAGCCCTGCACCAAACCTACTTGGTGTCTGCACCTCCTTCCCTCTCCAT
CTTCAATCCCTGGAAAAGTCTGGTCTGAGTGTGACTTGGGAAGCTTCAGTGTGCTGTTGGCCAGCTCATT
ACTTCTCCCTTCTTACACAGCAAACACATTCTCCACCATGTCAGTCTAAAGAGTCTAAAGGGCCGGGAGA
AGCATGAGCGAGGGCAGATTCTAGTCAGGGAGCCATGCCCTGGAAGATCCATCTTCTCATCTTCCATTGAC
CACTTGGTTGACCTGCACATCTGCACTGAGGGCAGAACAAAGCACAACACTCAGTCTTCAAC
GTGCTAGAAACGATGACTTATTCTAATTGGCCTCTTCATTGAATGAGAATTGCTTGTATA
GTTCACATTAGAAAAATGCCATAATAACTAAAGTAAACCAAACGTTGCACTTTCTCTTGTGAAACATTG
CAACCAAAAGGTCAAGCACAAGGCCTCACCTACGTGAAGACCTCTGGTAGGATCTGCATGGATGGAGAA
CCACTCTGTCCAGATCTGGGTTGGTCATGACACCCAGCTACCAATTAGAATATTCTGGTTCTTAT
AAAAATGGGTGCTAGTGGTAATTGCTTGTGGCTTAGTAAACTACTCTGTGGATGATTCCAACATTCAAAGC
CAATAGCCTTGTATTAAACAGATAATTGAGTACAATATGGCTCATTGACTTTCCATTACATCTGAGGATTCC
AGAGTCCCTGTTCATCCCTGGGATAGAGTGAGCCCTTGGCTCTCCAGGGTAGCTCAGGTTGGCCAGTTG
GCCAGTCCATTGGAGGTCACTTTCCCCCTCATCCCTCACCTCCTTACCCCTTCACGTACT
TCCTTCTTCTCCCTGTTATTCAAGCAGGTTAAAGCCATTGTGCTAAGATCTAATCTGAGGACA

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FIGURE 461B

CTATAATGGCCCTGTCGTCAAGGAAGCCGTATCGCTCGTTTCAAGGGCTTACCGGTAGCAACCTGGCAT
 TGATACATAGGCACTCTACAGAATTAAAGTTTCAAGGTAAGTCTGTTGTTGATTAATCTGCATTCAATTCAAG
 CGAATGCTCAAGACAAGCCAGGCATGCTGAGAACGGCGCTCTAGTTGATGAAAGATGGCATTCTGCTCT
 CCTCTATTCTCCATGTCAGTCAAGAGTATAAAAGAACATTGACCCCTCCACACTTAACCCTCTGGGATT
 CTTTATTATAATATAAAACCACCGTCGTGAGGCATTACCTGTTGGATGGAAGGTAGACAGCAACAAGATTAAAT
 CACCTGGTCACCAGACCCTCACGCCATATCCAATTGAAATTCTCTGTTGCTTAAATAACTCTTACAAATAAGG
 CGGGTCAAGGAGTCAAGGAGATCGAGACCATCCTGGCTAACATGGTGAACACGGTCTCTGCTAAAAATACAAA
 AGATGTGGTGGTGACACCTGAGTCCAACTATTGGCAGGCTGAGGCAGTAGAATCGCTGAACCTGGGAGGC
 GGAGATTGCAGTGAACCAAGATGGCCACTGCACCTGGGTGACAGAGCAAGACTCCATCTCAAAAAAA
 TTATAAAATAACTTTGCAAATAGGAAAGTGAAGCTCAAGGGTAACCAGTGAGGCTATGAAATTGCCAGTGAATT
 AAGACCAGGGCTAGAGTCACAGTCCAGAACCCCTATCGTATGAAACAGGGGCCCTCTGGTGAACATCAAGG
 TTAGGATGCAACTGAGAAAATAAAAGACTGCACTTGGAGAGGCAAGCACGCTATCCGGGTTGTTGTTGTT
 ATGTCCTGGTCTAGGTGAGGACTTAGCTGGGTTATTCAAAGTGGCGGGCTGGGCTATTGAGAATGTC
 CCTTCCATTCTGAGAACAAAGTCAGCCCTCTACCTGCCTCACCCAGGAGACTGATGACAAGATCTGTTG
 GAAAGCCTGATTAAAAAGAAAAAAATTCTTAAGCCAAATGGTGTCCAAGTGGTGTGCTGTGACAACAC
 CAGGAAGAGGCCACTTGTACCCCTCTATTCTTAGTGTCTAGTCAGTGGCAACACATAAGGCCCTGGACCG
 TGGGATGGCGGCCCTGAGATTCTGCTAGTGGACCACCCCTGGGCTCTTCTACCTCACTCAGCACCCCTGTT
 GGCCAAAGGAGAATTCTCGGTGGAGGCAGTGCTCTGCTAGTCAGGATTGATAAACAGCTGGCACACCGAAAC
 ACTGTACCAACGAATTCAACCAACCAGGGTTCTTCCCTACCCCTTGAAACCAATCAATTACTAGATGAGT
 GGATGGATGCAGAAAATCTGGCTGAGCCAAGTCCCTTTGAAATACAAGCCATAACATTGAAAGGACATCA
 GCGACCTGGCTTGTAGGTGATTTACTTCAGCTGAGGTAGTCAGGACTCTAATGTTAAGTGGGTACAGATCAG
 GTAGCCTGGACATCGTCTATCCCCATAATCCTGCCATCCCTACAAGGCCATGCCACCCTTCCCAGGT
 TTATTGAGGTATGATTGACATCCAGTAAATTACCCCTTGGAAATATAAGCTCTGTAATTGACAATTAA
 GTGTCTTGACCATCACCAAGATCAACCTGTTTAACCCCTCAAAAATTCCCTCTCCCTGCCCTTTCCCT
 GGCAACCCCTGATTGATTATCTGATCCTATAATTGCTTTCTAGAATGTCATATAATGGAGTCACACTGATG
 TCGCCTTGTAGTCGGCATCTTCCCTCAGCTTAATGCTTTGAGTCATTGATGTGCGTGTGGTTGTT
 CCTCTCCCTGCCGGAAAGTATTCAATTGCTGGCGTACTACTCTGCTTCTTTACTGAGCTTCCAG
 CCCTGGAAAGTCTGGCCAGGGCTTCAACTTGTGTTGCACGACCACTCCAGCTGCTGCTTCCCTCAGTCCC
 CAGGCTCCTCCAAATGCCAGCTGTGCCACAAGCTGTTAGGGCTCACACTGCCCTTGGCGCGTGGTGG
 GGTGTTGGTAGTCAGAAAGAATCCAGGGATGGGAGGGAAAGGGACGGATGGGTGCTCAATTGCTCACGTC
 TGCTGCAACCTGAAGCTGCATCTCAGCCAGCAGATCTGCTCCCTCTGGGACCCAGGCTCAGTGTACACGGT
 CCTGGCTATGTATTGGCGTTGGAGGCTTGAAAGGCAGCAGAACAGCAGATGGACAAGAAGGCTGGGCTGGC
 CCTGGGGCTCATCATGATGCTTCTGGATCTGTTGCTCATCTGCAAGCTGAGGGTGTGTTCTAGATGAGT
 TCTCAGGCCACCGCAACTGCATGTACCTCCCTTCTCATTCCAATGATGTCAGGCTGACACGTGTTCATG
 CTGTCCTGGCTCTCATCTGCACAATCGTCAGAATTGCTCAAGTCCTGGTAGAGAGAGATGCCGTGGTACT
 TTCCATTAGATTCAAATGGAGCTAAATTAAAGAGTTATGAGCTGTTAAGAATGAGGTAGTTCTCTAGGAC
 CCCCCAAAGACAGTCAGTAATGACCGTTGGATCTCATTGTCAGTCTTGTGATAGTATGTTCTGGAGTCTACT
 CCCCAGGAGCCAGGACAGGGCTGAAGATGGAGTCCTGTCAGCTGGAGCCTGCTAGCTGGTACACACAG
 CCTGGCCTGTACCTGCACCCACTGGATGGTGTACATGGTGGCAGGGACAGGACCAACCCAGTTAAGGCCAGA
 CCAGGCTGAGTGTGACCCCTGAGGTAAACACTCCACTAAGCTGTCATGCCCTGCTCAGTGAAG
 TGAGTCCCAGGACCAAGTGGTACCTCTATGCGAACCAAGAGACATTCTGGATCCAGGCCAGGTGAAGATTAG
 GGCCAGGAAGCCTGAGCCCCGGGCCCTCAAGGTAGGGAGGCCAGAGGGCTGCCAGGACTCTGCTGGGTTGAAT
 TTGCGGGGGAGGACTCTGTCCTCCCTCAGGAGTATTGTTGAGGCTTCTGGAGGTGAAGAAGCAATTCC
 CATTGCAAGGTTAGAGCGAGAACAGACAGAGGGCAAAACCAATTGCTTCTCCCCACGTTCAAATGCTGG
 GGCATGGCTGTCAGGAGGGCTCCTGGGAGGTGTCCTGGGGGTGGGGTGGAGGTGGGGCGATGCCCTTGGAGA
 TTGCGTGTGGTGTTCAGGACTGTTCTGGTGTGTTGAGGGAAACTTGTAGTGGGATTGCACTGGAATGTAAGGTCA

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FIGURE 461C

GGGCACGTGGTGCTCTCGGGTGGGTGACTGGGAGACCTAGAGGGAAAGCCTGCTATGCAGGGGGAGAGCA
CAGGACTGGCCCTGCTCTGCGGCCTCCCTTGTCCTCATAACCTGAAGTTAACATCCCCTGTCGGGACCTCCG
TGCACTCATCTGTCAAGTGGGGCGCTCCCTTCAGCATCACCTGCAGCAGACGGGCTCTCGGAGTCGTGGGT
TCCAGGCAGCTGTGTGGACCCAGGGACAGACATTCAAAGGGACGCCAGCCATCCTAGTAGACAGGGGCCCAACT
TAGCATCCCTCCCTCCGTAGGAAGGAGATGACCGGAAGCAACCCCTCACAGACACGAGCACATCGGCAAAC
CCTATGAAAGTGGAATTCTAACAAAATAAAACTTGCTTGTATCTGTTCTGTAACTTTGCTAAATAACTT
TATACATTTTCACTGTTAAAGAGCCGTCTCCGCCAGCAGTCCCTCACCCCGGTATGAATGTGTTCTCCACA
TTGTATATCCTCCACCCCTGGCTGCCTAGATCAGTAATAAAATTGATGTAATATAATTATAAGTAACACTG
TTGAAACCCCTGATCCCAGTGGAGGCTGTAACCCACCTGCCCGCACCACCCCCCTGACCCCTGTTACCGCATT
GTGTGTATTAATGCTGAAGAATTAAATGTTAAAGAGTTAAATTGTAAGGCAGTTGCTATATACAGTTGTCC
GCATTATTATAAGAGTTTCAGGAAGTT

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FIGURE 462

MVPPPPGEESQTVILPPGWQSYLSPQGRYYVNTTNETTWERPSSSPGIPASPGSHRSSLLPTVNGYHASGTPA
HPPETAHMSVRKSTGDSQNLGSSSPSKQSKENTITINCVTFPHPDTMPEQQQLLKPTEWSYCDYFWADKKDPQGN
GTVAGFELLQKQLKGKQMKEFIRERIKIEEDYAKNLAKLSQNSLASQEEGSLGEAWAQVKKSLADEAEVH
LKFSAKLHSEVEKPLMNFRNFKKDMKKCDHHIADLRQLASRYASVEKARKALTERQRDLEMKTQQLEIKLSNK
TEEDIKKARRKSTQAGDDLMRCVDLYNQAQSKWFEEMVTTLELERLEVERVEMIROHLCQYTQLRHEETDMFNQS
TVEPVDQLLRKVDPAKDRELWVREHKTGNIRPVDMEI

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FIGURE 463

TGCGACGTGACTGGCTAGCTCGTGGGTACTGGAAACAAGCAAACGAGGCAGCGAGCGAAGGACGGAGGCCGGACC
 CTGGGCCCGTGGAACTCCAGCCTGCCACCACGTACGCACACGCTCGCGCTCGCATCGCGCATATAACGA
 TATTGGATTTGACCTGCATTGGAAATTATCTACACTAAAATGCCACCAGCAGTGGAGGTCCAGTGGATA
 CACCCCCCCCAGATGGAGGCTGGGCTGGCAGTGGTAATTGGAGCTTCATTCCATCGGCTTCTTATGCATT
 TCCCAATCAATTACTGTCTTCAAAGAGATTGAAGGTATATTCCATGCCACCAGCGAAGTGTATGGAT
 ATCCTCCATAATGGCTGTATGTAIGGTGGAGGTCTATCAGCAGTATCTGGTAATAAAATATGGAAGTCG
 TATAGTCATGATTGGTGGCTGCTTGTCAGGCTGTGGCTGATTGAGCTTCTTCTGTAACACCGTACAGCA
 ACTATACGTCTGTATTGGAGTCATTGGAGGTCTTGGCTGCCTCAACTTGAATCCAGCTGACCATGATTGG
 CAAGTATTCTACAAGAGGCACCATTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCTGTACTCT
 GGCCCCCTCAATCAGGTTCTCGGTATTTGGATGGAGAGGAAGCTTCTAATTCTGGGGCTGCTACT
 AACTGCTGTGTTGCTGGAGCCCTATGCGACCAATGGGCCAACCAAGGCAGGGAAAGATAAGTCTAA
 AGCATCCCTTGAGAAAGCTGAAAATCTGGTGTGAAAAAAGATCTGCATGATGCAAATACAGATCTTATTGGAAG
 ACACCCCTAAACAAGAGAAACGATCAGTCTCAAACAATTAATCAGTCCCTGGACTTAACCCTATTACCCACAG
 AGGCTTTTGCTATACCTCTGGAAATGTGATCATGTTTGGACTCTTGACACCTTATCCACTACCTATGTTGGATTCTGTATGCGGG
 TTATGGGAAGAGTCAGCATTCTAGTGAGAAGTCTGCCTCCTTCCATTCTGGCTTTGACATGGT
 AGCCCGACCATCTATGGGACTTGTAGCCAACACAAAGCCAATAAGACCTCGAATTCACTGATTCTTGCACCTTC
 CGTTGTTGCAAATGGAGTGTGATATGCTAGCACCTTATCCACTACCTATGTTGGATTCTGTATGCGGG
 ATTCTTGGATTGCTTCGGTGGCTAGCTCCGTATTGTTGAAACATTGATGGACCTTGTGGACCCAGAG
 GTTCTCAGCGCTGGGATTGGTGGACATTGTGGAATGCTGCTCTGCTCTGGGCCACCACTTTAGGTG
 GCTCAATGACATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTGTCTTAATTATTCAGGTATCTA
 TCTCTCATTGGCATGGGCATCAATTATCGACTTTGGCAAAGAACAGAAAGCAGAGGAAAG
 TAAAGAGGAAGAGACCACTAGATGTTGCTGGGAAAGCCAATGAAGTTACAAAGCAGCAGAACCTCGGACCA
 GAAAGACACAGAAGGAGGGCCAAGGAGGGAGGAAAGTCCAGTCTGAATCCATGGGCTGAAGGGTAAATTGAGCA
 GTTCATGACCCAGGATATCTGAAAATATTCTACTGGCCTGTAATCTACCACTGGTGTCAATGCAAATAGTAGAC
 ATTTGTGTTGAAATCATAACAGTTGTTATTGATGGATTGTTGACTCCTTACCAATAGCCTGAATTGAG
 GAGGGAAATGATTGGTAGCAAAGGATGGGGAAAGAAGTAGGTTCTGTTTGTAAATCTTAGCTTTAA
 TAGTGTATAAAGATTATAATATGTGCTTAAGTTTGTCTTAAACTCTAGAGAGCCTAACCTTAAACC
 ATTTTGCTGAATTCTATTGAGTGTGTTAAAAGGAAAATAACAACACTAATTGTTGAGGCAAATCT
 AAAATTAAATTAAATCTGCTTCATTGTTACATGTAATATATTCAAGACATTTCACTGGAAGATTATGAACA
 GAAATATTGGTGAAGTTAGAGATTACAAATGCTGACAAAATATTCCACTGACATGAGATTCTGGC
 ATATGTTCTGCTAGCTATATATTAGAAATTCAAAGCATAAAACTTGGCAACATCTGGCTGTTCTAGACAC
 AGTGTACTTGTCAACCCCTCTCAGGTACCTTCTGGATGCTTATTAGAAGCCAAGTAAAGTGTAAAGGTTT
 GTTTCTTAAATTAGCTATTCTGCTCCCTGTCAGGATGCAATTGAGTGTGTTATAGATCACTGCCCTTT
 TGAAATCACCTGGTATTATTCTACTGGAAAAGTTAGTATTAAACACTACAGAACTACATATTGTCCTCC
 TTGGTAAATACAACACATCTAATTAAATGTAGACAGATATTCAAACATCAGCTGAATTCACTTAAGTTTCCA
 AAACCTCAGTTAAACTGTGAAGCTATTGAAATTCTCTGGAAATTCTCCCTGATTACAGTGGTCCC
 ATTATATCTGCTCTAGCTTAGTGTGAGATATGTGTGTTGGTGTGTTGTTTTGTTTTTTTT
 TTTTTAAGGTTGCAAATTAAAAGGCCAGAAAATTGGCACCAGGCAAACGAATAAGATAGGATTGGGAA
 AGAAGTGTCTAAGTGTGCTTAGTTAATAAGTAACTCCTCTCTTCTCAGAGAAGGCCCTACAGAAAATTGT
 TGTGCTTAGAATTGCTGGATGCATTTCACACAAACCTAAACATTGTCAGGCCCTTCACTTACCTG
 AAAAGTAGAGAAATGGATTCACTAAGGATAAGGAGGGAGGTGGACCAGAATGAAAATGTAAATATT
 AACCTAATATCACTTAAATCGAGGCAGAAAGATATAGACATTCAATGAATTATATTCAATGCAATT
 CTGTAATTGACAGAGTAAAGTATAGATACAAAACCTTGTGTAAGAGGCTGACTTTCCAATAAACATT
 AGAAAACATTCTCTCCAAATGTCTATTCTGAGGAAAATATTGCTGTGCTTCATTTCATTACCA
 TCATTGGCCTTGCTAAATTGATTGAAATTACCTCCAGCTTGAACCTGAAAAAAGAAAAAAG
 AAAAAAAAAAAAAAGAAAAAAGAAAAAAG

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FIGURE 464

MPPAVGGPVGYTPPDGGWGWAVVIGAFISIGFSYAFPKSITVFFKEIEGIFHATTSEVSWISSIMLAVMYGGGP
SSILVNKYGSRIVMIVGGCLSGCGLIAASFNCNTVQQLYVCIGVIGGLGLAFNLNPALTMIGKYFYKRRPLANGLA
MAGSPVFLCTLAPLNQVFFGIFGWRGSFLILGGIPLLNCVAGALMRPIGPKPTKAGDKSKASLEKAGKSGVKKD
LHDANTDLIGRHPKQEKRSVFQTINQFLDLTFLTHRGFLLYLSGNVIMFFGLFAPLVFLSSYGKSQHYSSSEKSAE
LLSILAFVDMVARPSMGLVANTKPIRPRIQYFFAASVVANGVCHMLAPLSTTYVGFCVYAGFFGFAFGWLSSVLF
ETLMDLVGPQRFSSAVGLVTIVECCPVLLGPPLLGRNDMYGDYKYTYWACGVVLIISGIYLFIMGINYRLLAK
EQKANEQKESKEEETSIDVAGKPNEVTKAAESPDQKDTEGGPKEEEESPV

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FIGURE 465

GGCACGAGGGAGAACTAGTCGATTTTTTTTTCTTGTGTTCTGTATAAAAAAGGAC
CCCAAATATAAAGGTAGGGAAAGGGACAAGAGGAACATAACCCCTAGTGTAGAGAAATGGAAGGAGAAGGAGA
AGCCTCAAAAGGAGAGGTGGGAGGGAAATGTCATTAAGGCAGCAAAGTAATCTCTGTAGAAAGATGGGAGGAGGAC
CCTCCATAGCCTCAGAGATAAAGGCAAAGATTGCCCTCTCAGTGTCCAGAAGGGAAATGGCAGCTTCTCCTT
CCATGGCAGCCACTCCATTGCTCACTCCGGATTACCTTACCTTATGTAGATAAGAGTGCTGCAGAGCTCGAAA
GGCAGAGATTGCTTGTGTGGTTAAAAGTCAGCATTCCAGCAGCAGCTGTGCTCCGACTCCTCCATCTCAGG
TACCAACGACTGCAGTGGGGGGGGCCCTCTGGGGGAAAGGCTCCACGGGGCAGGGATACTCTGAGGCCAGTC
ATCCTCTGGAGGCAGCCAAATCAGGTCAAAGATTGCCAACTGGTCGGCTTCAGAGTTCCACAGAACAGAGG
CTTTCGACGAAACATCTGCAAAGATAAGCCAAACTCCACATGTCCACAGGTGTTGCATATGTGGACTGCAG
AAGAACTTCGGGAGCTCGGTACCAGAGTGTAAACAACCACGGGTGTAAGTGCCATCTGGTAGCTGTAGATTCTGGC
CAGGCCAAAGTCAGCCAGCTGACTGTTCCACCATGTCACCAGAACATGTTCTCTGGCTTCAGATCTCGGTGAAC
GATGCAATTGGCATGAAGGAAATCTAGGCCTCTTAGAAACTGGCGCATCAGATCCTGATCGTTGGCTGGCAA
GCCTGGTGGGGTGCCCTGTCAGATAATGTCCTTAGGTCTGGTCTACATGCTCAAACACCAGGGTTACCTTGAT
CTCCCAGGTCAAGTCCGGATGTGGCACAGACGTCCATCAGCCGGACAACATTGGGATGCTAAAAGCCTCCAGTC
CCTCAGTAAAGCCACCTCAGAACATGTGCTGATGGGAAGGGCTCCTCCACCTCCCTCCATTGGGACTCTCAC
ACTCTTGAGGGCCACAAAGTGGCACTGTGGGATCACGGGCTTGTACACTGTCCCATTAGGCACCGACACCAAT
TTCAGCCACTGGCTCATATCGAGAGGTAGCCATTCTCAGATCAAGGGAGACCTCACGCCAGCCCCGGGTGCTGT
GGGGCGGCCCGTTATCGGGCCCCGGAGCCGGTCTACGGCCCCATACACCCGAGCTCGTCCGGAGCAG

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FIGURE 466

MSTGVAYVDCRRTSGARYQSVTTGVSAIW

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FIGURE 467

GAATT CGAGG ATCGGGT ACCATGGGAGGAAA ACTTCTTCTGGCTGGCTCCGTGCCGCTGTGTTGCCAACC
GTCCAGTCCC GCCTACCA GTGCCGGCGCTCCCACCCCTCCCCGGCTCCCCGGTGTCCGCCATGCCAAAGC
CTACGACCACCTCTCAAGTGCTGCTGATCGGGACTCGGGGTGGCAAGACTGTCTGATCATTGCTTGC
AGAGGACAAC TTCAACA ACAC TTACATCTCCACCATCGGAATTGATTCAAGATCCGCACTGTGGATATAGAGGG
GAAGAAGATCAAAC TACAAGTCTGGGACACGGCTGGCCAAGAGCGGTCAAGACAAATAACTACTGCCTACTACCG
TGGAGCCATGGGCATTATCCTAGTATA CGACATCACGGATGAGAAATCTTCGAGAATATT CAGAACTGGATGAA
AACGCATCAAGGAGAATGCCTCGGCTGGGTGGAGCGCCTCTGCTGGGAACAAATGTGACATGGAGGCCAAGAG
GAAGGTGCAGAAGGAGCAGGCCGATAAGTTGGCTCGAGAGCATGGAATCCGATTTTGAAACTAGTGCTAAATC
CAGTATGAATGTGGATGAGGCTTTAGTCCCTGGCCGGACATCTGCTCAAGTCAGGAGGCCGGAGATCAGG
AACGGCAACAAGCCTCCCAGTACTGACCTGAAA ACTTGTGACAAGAAGAACACCAACAAGTGCTCCCTGGGCTTG
AGGACCCTTCTTGCCCTCCCACCCCGGAAGCTGAACCTGAGGGAGACAACGGCAGAGGGAGTGAGCAGGGAGA
AATAGCAGAGGGCTTGGAGGGTCACATAGGTAGATGGTAAAGAGAAATGAGGAGAAAAGGGAGAAAAGGGAAAAG
CAGAAAGGAAAAAAAGGAAGAGAGAGGAAGGGAGAAGGGAGAGGAATGAATTGAGGAAGTGAAGAAGGCAAGGA
GGTAGGAAGAGAGGGAGGAGGAAGGAAGGGAGAGATGCCTCAGGCTTACCTGGTTTCAAGGGCA
AACATAATGTAATAACACTGATTATCTGTTACTAGATCAGGTTAGGGCTCTGCAAAAGGCTAGCTCGGCA
CTACACTAGGGATTGCTCTGTTCTGCACTTGTATGGCTTCTGGTATTAAAGGCCACCATTGCACAA
AAAAAAAAAAACCATGGTACCCGGATCCTCGAATT

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FIGURE 468

MAKAYDHLFKLLLIGDGVGKTCLIIRFAEDNFNNTYISTIGIDFKIRTVDIEGKKIKLQVWDTAGQERFKTITT
AYYRGAMGIILVYDITDEKSFENIQNWMKSIKEASAGVERLLLGNKCDMEAKRKVQKEQADKLAREHGIRFFET
SAKSSMNVDEAFSSLARDILLKGGRSGNGNKPPSTDLKTCDDKNTNKCSLG

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FIGURE 469A

GGTGTGGACGTTGCTAAATTCGGTAGCCATGGCACAGAACATAAGAAAGCATGGATTATGGCAACCACAGA
 ATCTCAGTAGTACAAGTCCATTCAAGTTTCTGAAAGAAAGCCTCTGTTAAAGTGAAGCAAAGAAACTGTTG
 TGGATTATAACGTTAGAAGTCCAATTTCAGTGCTTACAAATAAGCATCATTAACTTTAAATGAAAA
 AGATTAAGATCTCATGCAACTGTTGTTCTGGAAGCCATTCTCCAAAAGGGAAGTGCACATTAAAACACAG
 ATATGATGGTCCTGCTGAGGGATTAAAGTCTACTGCTTACATGACCAGCTGAAACGGTCACAGACA
 GAAAGGCCTCTGCCACTGACAGGGCTCTGTTGGCACAGACGGACCCCCAAAGTCCACACTGATGATTTC
 TACATGCGCGCTCCGGTCCAAAATGGCAGCTAGGATCATCAGTTATGGCTCTGTAGGGACCCCCCGAAGT
 GAAGGTTCTCACCATATAACCTCAACCCCCGGAGTCCAAAATGGGGTAAGGGCAAGGATTGCAGATTGGCCC
 CCAAGAAAGGAAAACATAAAGAATCTAGCCGTTCAAGCCAGGAAATAGAAACCTCAAGTTGCCTGATAGCCTG
 TCCTCCAAAAGCAGTCCTGTGAGTCAGGGAAAGTTCTGTTAGCCTCAATTCAATGACTCAGCCATGCTGAAAAGC
 ATACAGAACACGCTGAAAACAAGACAAGACCGTCGGAGAACATGGACTCCAGATTCTCATGCCTGAAGCCTAC
 CCCAGCTCCCCAGAAAAGCTTCGCAGAATACGCCAGCGAAGCAACAGTGAATCACCATAAGTGAACATTGAT
 GTGGATAGCTTGATGAATGTATCTCACCTACATACAAGACTGGACCATCACTGCACAGGGAAATGGTAGCACA
 TCTTCATTGATAAACAGGAAACATCTGGAGAAAGCTTTTGATTGTTAAAGGGCTACAAAGATGACAATCT
 GATCGAGGTCCAACCTCAACCAAGCTCAGTGACTTTCTATTACTGGGGCAAGGGTTCTGGTTCTCTTTG
 GATGTAATAGACGGGCTATCTCACAGAGAGAGAACCTCAGGCTTTAAGGAAAGGGAAAACCACTCAAGCGA
 CGTTCAAAATCTGAAACTGGAGACTCCCTATTTCTGTAATTGCGCAATGCCAAAGGTGAAGAAACTGGGAAG
 TCATCAGATCTGAAGATAACCGATCAGAACAGACTCTGTCAGGCCCTGGACATGTCACAAAGTCTTGCCTACTAT
 GATGTCCAGAGTATTATTGATTGAGGCAATTATGAAACAGGCACAATGTTATTAGGAGAAACACC
 ACCACTGGAGCTCCGCAGCTGCCGTGGCATCCTGGTCTCTGGACCTCTGTCATTCAAGCCAGTTAGCTCC
 CCAATGGGCAGCACAGAGGACCTGAATTCAAAGGAAGCCTCAGCATGGACCAAGGGAGATGATAAAAGCAATGAG
 CTTGTAATGAGCTGCCATTTCGGAATGAGATAGGTGGAGAAGGGAGAGGAAATCAGCCTTCAAATCA
 AATTCTGGCTCCTTACTGGATGTGAAAGTGCCTCTTTGAGTCTACCCCTAGTCCCATTGCACAAATGCAGGA
 GTGGCAGTACTTGAAGTGCCAAGGAGAACCTGGTGTGCACCTAGATAGAGTAAAAGATACATCGTGGAACAC
 GTAGATCTGGGTGCATACTATTAGAAAATTTCACAGAACACTGGAACATTGGAACTATTGGGGCTGATGAG
 AATCTGGTCCAGTGGCTGTGAGCATTGAAAGGAAAACAGATGAAATGAAAGAAAATGGATCTCCGTACAAC
 TACCGAATAATTTCAGAACTAGTGAGCTCATGACACTGAGAGGTTGGCTCTGGAGGACGCCATTCCGTCACA
 GCCAAGCACTCGACAGCCAGAGGCCCTCCTCAAAGAAGTGTGGACAGTGGTTCTGAGCTCAATGTCCAG
 TGCCTGCCATTGGCCTCAACACACCCAAGGTACAGAGCAGCTCATGAAACTGGATGAAACAGGGCTGAACACTAC
 CAGCAGAAAAGTAGGCATCATGTAAGTGCACAGAGCACTGAAGAACAGATGTACAACAATGAGTCAGCT
 GGCCAGCCTTGAAGAATTCTCAACTATTGGGAGAGCGAGTTGGCTCAAAGGATTGAGAAGTATCGAGCA
 CAGCTGATAACAAAAGTACTCCACTGGAACCCATTCTGTACACAACATACAAAGATTATGAAATTATGTT
 CATGTTCTACCATGCTGCCATACACACCCAACAAACAAACAGCTCTGAGGAAGCGGCACATTGGAAATGAT
 ATCGTAACAATTGTTCAAGAGCCTGGAGCACAGCCATTCAAGCCAAAAACATCCGATCCCACCTCCAGCAC
 GTTTCGTCATCGTCAGGGTGCACAATCCGTGCTCTGACAGTGTCTTATAGTGTGGCTTACAGGTCCAGA
 GATGTGCCCTCCTTGGCCTCCATTCTAAAGGGTCACTTCCCTAAGTCAAATGTTCAAGGGACTTCCTT
 TTGGCGAAAGTGATTAATGCAAGAAATGCTGCTCATAAATCGGAGAAGTTTGGCCATGGCAACTCGGACCCGC
 CAGGAATACCTGAAAGATCTGGCAGAAAAGAACATGTCACCAACACCCCTATCGACCCCTCTGGCAAGTTC
 ATCTCTGGCTTCAAGAACAGGAAAGAACAGCGTGGCTTCAATTGTTCTGTAGAGATGTGATAGGGTGGACTTCA
 ACTGACACCAGCCTCAAAATCTTATGAACGAGGAGAACATGTTAGGGTAGTTATTAAACATTGAGGAG
 ATCAAAGAGATTGTCAAAGGTTGCAGTTGTTCAAAAGGCTGTGAATGGGAGATGACTCTGCGAAGAAAT
 GGGCTAGGACAGCTGGCTTCCATGTCAACTATGAGGGCATTGTGGGGATGTGGAGGCCCTACGGTTATGCCCTGG
 CAGGCAGGGCTGAGGCAGGGCAGTCGCTGGTGGAGATCTGCAAGGTGGCGGTAGCCACTCTGAGCCATGAGCAG
 ATGATCGACCTCTGAGAACATCTGTCAGGTGAAGGTTGTICATCATTCCCCGATGACTGCACCCCGGG
 AGGAGTTGCTCTGAAACCTACCGCATGCCAGTGATGGAGTACAAATGAATGAAGGTGTTCATACGAATTCAAG
 TTCCCTCCGAAATAATAACAAGTGGCAGAGGAACGCCAGCAAGGGCCTATTCACCTCAAGTCCCGTCCAG

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FIGURE 469B

GTCAGAGTCCCATGACCTCGGGCTGAATGCTGGAAAAGGAGATGGGAAGATGCCTCCTCCAGAAAGAGCCGCC
AACATCCCTCGAAGCATCTCCAGTGACGGGCGCCCACTAGAGAGGGCGCTGTCTCCTGGTTGGACATCTATGTG
ACGGTCTCATCCATGGCTTAGCAAGATCCCAGTGTGCGAACTCTCCTAGCAACTTGTCTTCATCCAGTGATACT
GGTTCTGTGGGGGCACTTACAGGCAGAAGTCCATGCCGAAGGGTTGGAGTGAGCCGTAGATCCCCAGCCTCC
ATTGACAGGCAGAACACCCAGTCAGATATTGGTGGCAGCGGAAAATCCACGCCTAGCTGGCAAAGAAGTGAGGAT
AGCATTGCTGACCAGATGGCTTACAGTTAGAGGACCTCAGGATTCAATTCTTGTCTCGAGCAGCATGAA
TATACAGAGCCAACATGCCATCTCCAGCAGTATCAAAGGTACTGCCAGCTTCCGAGAGAGCCCCAGGGAGA
TTAATGCCGCAGGATCCAGTGGTCATTGTCTCAAACAAACAAGGGCATTCTGATAGCCACTACTCGAGGCCAC
TCCAGTAGCAATACTCTCCAGCAATGCGTAAGTGCCTAGTGATGAGAAGTGGTACGATGGGACCGCACA
GAATCCGAACTCAACAGCTATAACTATCTGCAAGGCACCTCTGCTGACAGTGGCATTGACACCACCTTTATGGC
CCCAGCCACGGCAGCACAGCCTCGTGGGGCTGCCACATCGCACCTCGCTCAGGGCCAGGCAAGGAGAAAGTG
GCACCCCTATGGCACAGCTCAGTGAAAGTAATCTCATGGCAGATCGGACTTGGAGACAGAGAGCCACGGCCTG
GACCGGAAAACAGAGTCTCCCTGAGCTTAGACATACACAGCAAGAGCCAAGCCGGCTGACCCCTGACAAGG
GAGAACAGCACCTTCAGTATAAACGATGCTGCTTCCCACACAAGTACCATGAGCTCCGACACTCTGCCAGCCA
GTGGTTTCACCAGTGCCGGAGTTACCTAAAGAAGAGCTTCATCCAGCTGCCCTCACAGCTGGCACCATCC
TTCTCCTCCTCTCCTCTCTGGCTTAGGAGTTTACCTCGCCAGGGCGTACTAGCAAGTACCTG
ATTGGATGGAAAAAACCGAAGGAACCATAAAACTCCGTGGGATTATGGACACGAGAAAGCGTCATCAGAGCGAT
GGCAATGAAATAGCCCACACCAGGCTGCGTGCCTAACCGAGACCTCCGGCATCTCTAACGCCAACCTCCAAG
TCCACCATTGAAGAAGATCTAAAGAACTAATTGATCTTGAAGGCCAACTCTGAATCACAGAACAGTTTAAG
TTCCACGCACTCTCCTCTCAGTCTCTTCCCCAGCACCCCCACCTCACGGGGGCTTGCACAGAACACTG
TCGGACGAGAGCATTACAATAGCCAGAGGGAGCATTTCACCTCCAGGGCGTACTCTGGACCAAGCCCTG
CCCAACGACGTCTCTCAGTAGCACGTACCCCTCTCCCCAAGTCGCTCCGTTGAGGAGGGCTTACCC
TTAGGAATGAAATCGCTGCATGGAGAGTTCTCAGGCTCGGACAGCTCCCTCACTGACATCCAGGAGACCCGCAGG
CAGCCTATGCCGACCCCTGGCTGATGCCCTGCCTGACACTGCTGCAAGACTGGATTGGTCAACCTGGTAGAT
GCTGCCAACGCCATGAGGTCAGAGAGCCTCATTTTGCTGCTAGTGATGAAACCATGCCCTTGAGTGCT
GCATCCAACAGTGATCAGCTGGAGGACCAAGGCTCTGGCCAGATGAAGCCTTACAGCAGCAGTAAAGACTCCTCT
CCCACCTGGCTCTAAAGTGGACCAGCTGGAAAGGTATGCTGAAGATGCTCGGGAAAGATTGAAGAAGGAAAAA
GAAGACAAAGCTCACCTCAGGCGGAGGTGCAGCACCTGCGAGAGGACAACCTGAGGCTACAGGAGGAGTCCAG
AACGCCCTGGACAAGCTGAAGAAGTTACAGAAATGGGTCTTCAACACCATAGACATGAGCTAGGGAAAGGCTGAGG
AGGACAGGAGAAGGGCCAGACACTCCCTCCAGTGAGTGCTGCAGCCCTTATCCCTCCATAGAAAGCATCCT
CAGAGCACCTCCCTGGCTTCACTCTGCCCTTTCGGGGAGTGCACAACACAATAGTGCAAGATCAACAATC
ATCACCTGCCTTTGAGAAAAGAAAAACAAAAAAAGTAAATAAAAATTAAACAGTAAAATAAAAGTTAACT
GCTAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 470

MTSLKRSQTERPLATDRASVVGTDGTPKVHTDDFYMRRFRSQNGSLGSSVMAPVGPPRSEGSHHITSTPGVPKMG
VRARIADWPPRKENIKESSRSSQEIESSLSDLSKSSPVSGSSVSLNSNDSAMLKSIQNTLKNKTRPSENMD
SRFLMPEAYPSSPRKALRRIRQRSNSDITISELDVDSFDECISPTYKTGPSLHREYGSTSSIDKQGTGESFFDL
LKGYKDDKSDRGPTPTKLSDFLITGGKGSGFSLDVIDGPISQRENRLFKEREKPLKRRSKSETGDSSIFRKL
NAKGEELGKSSDLEDNRSEDSVRPWTCPKCFAHYDVQSIILFDLNEAIMNRHNVIKRRNTTGASAAAVASLVSGP
LSSHSASFSSPMGSTEDLNSKGSLSMQDDKSNELVMSCPYFRNEIGGEGERKISLSKSNSGSFSGCESASFEST
LSSHCTNAGVAVLEVPKENLVLHLDRVKRYIVEHVDLGAYYYRKFFYQKEHWNYFGADENLGPVAVSIRREKPDE
MKENGSPNYRIIFRTSELMLRGSVLEDAIPSTAKHSTARGLPLKEVLEHVVPPELNVQCLRLAFNTPKVTEQLM
KLDEQGLNYQQKVGIMYCKAGQSTEEEMYNESAGPAFEFLQLLGERVRLKGFEKYRAQLDTKDSTGTHSLYT
TYKDYEIMFHVSTMLPYTPNNKQQLLRKRHIGNDIVTIVFQEPGAQPFSPKNIRSHFQHVFIVRVHNPCSDSVC
YSVAVTRS RDVPSFGPIPCKGVTFPKSNVFRDFLLAKVINAENAAHKSEKFRAMATRTRQEYLKDIAEKNVINTP
IDPSGKFPFISLASKKEKS PKYPGAELSSMGAIWAVRAEDYNKAMELDCLLGISNEFIVLIEQETKS VVFNC
CRDVIGWTSTDTSLIKIFYERGECVSVGSFINIEEIKEIVKRLQFVSKGCESVEMTLRRNGLGQ LGFHV NYEGIVA
DVEPYGYAWQAGL RQGSRLVEICKVAVATLSHEQIMIDLLRTSVTVKVVIIPP HDDC TPRRSCSETYRMPVMEYKM
NEGVS YEFKFPFRNNNKWQRNASKGP HSPQVPSQVSPMTSRLNAGKGDGKMP PERAANIPRSI S SDGRPLERR
LSPGSDIYVTVSSMALARSQCRNPSNLSSSDTGSVGGTYRQKSMPEGFGVSRRSPASIDRQNTQSDIGGSGKS
TPSWQRSEDSTIADQMAYSYRGQDFNSFVLEQHEYTEPTCHLP AVSKVLP ARESPSGRILMRQDPVVHLSPNKG
HSDSHYSSHSSNTLSSNASSAHSDEKWYDGRTESELNSNYLQGT SADSGIDTTSYGPHG STASLGAATSSP
RSGPGKEKVAPLWHSSSEVISMADRTLETESHGLDRKTESSLSLDIHSKSQAGSTPLTRENSTSINDAASHTST
MSSRHSA SPVVFTSARSSPKEELHPAAPS QLAPSFSSSSSSSGPRSFYPRQGATSKYLI GWKKPEGTINSVGFM
DTRKRHQSDGNEIAHTRLRASTRDLRASP KPTS KSTIEEDLKKLIDLESPTPESQKSFKFHALSSPQSPFPSTPT
SRRALHRTLSDESIYNSQREHFTS RASLLDQALPNDVLFSTYPSLPKSLPLRRPSYTLGMKSLHGEFSASDSS
LTDI QETRRQPMPDPGLMP LPDTA ADLDWSNLVDAAKAYEVQRASFFAASDENHRPLSAASNSDQLEDQALAQM
PYSSSKDSSPTLASKVDQLEGMLKMLREDLKKEKEDKAHLQAEVQHLREDNLRLQEEQESQN ASDKLKKFTEWFNT
IDMS

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FIGURE 471

CGGAGGTGAGGTTGTTACCGCGATTCTGAGAGGTGGCTTCTAGTCCTCCAGACCTCGGCTTAGTGCTGTCT
CCGCTTTCTTCACCTCACAGAGGTCGTCCTCCTAAAGAAGGTTATGGGAGGTAAGGTCAATGCG
TAGGGTAGAGTAAGATGCTTATGGTGAATTGAAGGTAATTCTTGGGACCTAGAGAAGAAGTAACGAGTGAG
CCACGCTGAAAAATTGAAGTCACACCACAGAGTCGTATGTTTCAACATCATAGTAATGCTGATTTCACAGA
ATCCAAGAGAAAAGTGGAAATGATTGGTCCCTGTGACCACATTGATGTCAGAGGACATAGTTATTGCAGGAG
AACAAAATCAAACACTACAGATTGCATAGACCTTGCATGATGAGATGCCTGGTAATAGACCAGATGTTATTGAA
TCCATTGATTTCACAGGTTTACAGGAAGCACGTCCTCCATTAGTATCCGAGACGATGAGATATAGCACAAGT
AAAGCATTATAGGACCCATTACAAACCCCTGAGAAAAAGAAACGTAATGAAGGGAGGAATGAGGCACATGTT
CTAAATGGTATAATGACAGAGGAGCAAAAAGAGAAACAGAAATTAACTCTGAAAATCAGAGATTGACAAT
GAATTATTCCAGTTACAAAGAAATTGAAGAGCTGAAAAGGAAAAGATGGTTTGAGAACAGTTGTAAGA
TCTGAACCTCTCAGGAACAATTGTTCCATTATGAGGGTCATAATAATGGTCTCTAAACCTGATGAAGAA
AAGAAAGATCTTAGTAATAAGCTATGCCATCACATTGTGATTATCAGCAGAACCTGGGGATGAGCCAGACAAA
TATCCCCTGTAATGGACAAGTAATACCTACATTGTGACACTTCATTACTCTTCAAGGCTGAATGGCAGTC
GTATATCCTTTATAGTGCCTATGGTCCCCCTTCCCAGTTGAACATCATTAAACATTAGAGATTCA
GGTCCACCAAATCCACCATCAAATTTCAGGCCCAGATGACTCTCAGATAAAAATGGATTATGTAAAT
AATTGTCATGTTAAGTGGATTGCATGACTTTGATCAGAACATGAATAACTGACTGTAGTGAGAACAGGAGT
AGTGGTCATCCCTCTGGAAATGGCTGCAGTATGCAAGATCGATATGTGAGTAATGGTTCTGTGAAGTCAGAGAA
AGATGCTGGAAAGATCATTGATGGACAAGCATAATGGAACAGACAGGTTGTGAACCAGCAGTTCAAGAGGAA
AAGTTAAATAATTGCAAGACTTACTTATTCTTTAAGAGGTCTGCCGGTCTGGGAAAACAACATTGTCGA
.ATTCTGCTGGTCAGAACCGTATGGCATTGTGTTCAGCACTGATGACTATTTCACCATCAAGATGGGTACAGG
TATAATGTTAATCAACTTGGTATGCCATGACTGGAACCAAGAGCAAAACAAGCTATGATCAGGGAAAGA
TCTCCAGTTAAATAGATAACACTAATACAGCTGGGAAATGAAGCCATATGTGAAGTGGCATAGGAAA
GGATACAGAGTAGAGTTCATGAACCTGAAACTGGTGGAAATTGATCCTGAAGAACATTAGAAAAGAGGAATAAA
CATGGTGTCTCGAAAGAACATTGCTCAGATGTTGGATCGTTATGAATATCAAATGTCATTCTATTGTAATG
AATTCACTGGAAACCATCACACAAAAGCACACAAAGACCTCCCTCCACAGGGGAGACAGAGGTGGGAGGCTCT
CTTGGCTCACATAATCGTGTGTCACAAATAATCATTAAATTAGCTATTTCACTAACACATTGTTGTT
CACTTGAAAAAGAGTTAGTGAGCCTGTTGGAGTTAAGTAGTTCAAAATAAAAAGGCTACAGTCCTCACA
AAGGATGTTCCCAAGCAAGTGTAAATTCCAGCAAGTGTAAAGTGAATAAAATATGAAATTGTT
TTAAATGTTTATATTCTTGTGTAATACTCTGGCTTATGGAGACCTGAGTAATAGAGTGGTGGGTA
GGAGCTAGGATGTTTCTACAATCGAATTAAACTAATTATCTATTATGAAACACTATTGAACAGTTTT
AATAGTCATATCTAAATCTAACTTTCATAAAACCTTACGGTTTCTACTACCTAAATATGCAAGAAAT
ACTGACTTGGTATAGGGTACCTTAGTTCTATTCACTAGACAGGTAAAATTATATTCACTGAGTGTGATCTG
TGTGACAAAATTATTCTTAGCTATAATCAGCACATCACTTAGTCAAAACAAAATTCCCCAGCAAATGTTAGATA
GTAGGTATATCAGTCACCTGGGAGTTCTTCATAATATGCATATTCACTTGTAAATGCACTACATAGTTATCAT
CCTCCTCTCAACCCATCTCCCTAACCCACATGCTGCCAGTTCTGAAGGGATAAAAGTGATTCTAAATGTT
.TTACTTCTCTGTTCAATTAAATGTGATATAATTCTAGTATAAAAATATTGGACAGTTGCTTAACATGGTCA
TAAGAGGATTGTTACTATAGAATATCTCTAGTACTAATTCTGTAGAGCAAATTATATTCTCACTGGAT
AGTTTTAGATGTGTTCTCATAAAATTAAAAACTGAGATGGAATT

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FIGURE 472

MSYGEIEGKFLGPREEVTSEPRCKKLKSTTESYVFHNHSNAFHRHQEKTGNDWVPVTIIDVRGHSYLQENKIKT
TDLHRPLHDEMPGNRPDVIESIDSQVLQEARPPLVSADDEIYSTSKAFIGPIYKPKPEKKKRNEGRNEAHVLNGIN
DRGGQKEKQKFNSEKSEIDNELFQFYKEIEELEKEKGDFENSCKESEPSQEQQVFPFYEGHNNGLLKPDEEKDLS
NKAMP SHCDYQQNLGNEPDKYPCNGQVIPTFCCTSFTSFREWEQSVPFIVPYGPPLPSLNYHLNIQRFSGPPNP
PSNIFQAQDDSQIQNGYYVNNCHVNWNMCFDQNNEYTDCSENRSSVHPSGNGCSMQDRYVSNGFCEVRERCWKD
HCMDKHNGTDRFVNQQFQEEKLNKLQKLLILLRGGLPGSGKTLRSRILLGQNRDGIVFSTDDYFHHQDGYRYNVNQ
LGDAHDWNQNRAKQAIIDQGRSPVIIDNTNIQAWEMKPYVEVAIGKGYRVEFHEPETWWKFDPEELEKRNKHGVSRR
KKIAQMILDREYEYQMSISIVMNSVEPSHKSTQRPPPQGRQRWGGS LGSHNRVCVTNNH

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FIGURE 473

GGCGGGCGGCAGCGGGTCGGTGCCTGGCGCACGGGTGGAGCGGAGCCCAGGCCGGAGCAGGCCGCC
CCAGCGACCATGGGAACGTGTTGGCTGCCAGCTGCCGCCGCAGGCCGCCACCGCCCTGCCGCCCTC
GTGGGGCTGCCACCTCCGCCCTGCCGCCGGCTCACGCTGCCGCCCTGGGAGGCAGCCTGGGCCGCC
ACCAGTACGAGTCAAGTCGAACGGACCCCCGGGCTGCAACCGCCAGGCCCTCAGGGGCCGAGGATGGG
GCCTGCCCTGCCAACCCGGCACATTGAGGAGTGCACCGGAAGTGCAAGGAGCTGTTCCATTCA
ATGGAGGGTGTCAAGCTCACAGTCAACAAAGGGTTGAGTAACCATTTCAGGTCAACCACACAGTAGCCCTCAGC
ACAATCGGGAGTCAACTACCACCTCGGGTACACATATGTGGGGACAAAGCAGCTGAGTCCCACAGAGGGCTC
CCTGTACTGGTGGGTGACATGGACAACAGTGGCAGTCTCACGCTCAGGTCTTACCAAGCTGGCCCCGGTCTC
AGGTCCAAGATGGCATCCAGACCCAGCAGTCGAAGTTGTGAACCTGGCAGGTGGACGGGAGTATGGGCTCT
GACTTCACAGCAGCGTACCCCTGGGAACCCAGCAGTCCTGTGGGTAGGAATCCTCGTAGCCCACACTACCTC
CAGAGCATCACGCCTGCCCTGGCCCTGGTGGAGAGCTGGTCTACCACCGCCGGCTGGAGAGGGACTGTC
ATGTCTCTAGCTGGAAATACACATTGAACAACGGTGGCAACGGTAACGTTGGCCAGGCCATGCACGCA
ACATACTACCACAAAGCCAGTGACCAGCTGCAGGTGGGTGGAGTTGAGGCCAGCACAGGATGCAGGACACC
AGCGTCTCCTCGGTACAGCTGGACCTGCCAAGGCCAACCTCTCAAAGGCTCTGGATAGCAACTGG
ATCGTGGGTGCCACGCTGGAGAAGAACGCTCCACCCCTGCCAGGGAGACCTGAGCCCCCTCCCTCCCCCTT
CGAAGAACAAAGTTCAGTGTGGCTTGGCTCACCATCGCTGAGCCCTCTGGCCCCGCCCTCCACGCCCTT
CCGATTCACCTCACCTCCACCTCCCCCTGCCAGAGGGAGACCTGAGCCCCCTCCCTCCCCCTT
GGGGTCCGGGGGGACATTGGAAAGGAGGGACCCGCCACCCAGCAGCTGAGGAGGGATTCTGGAACCTGAAT
GGCGCTCGGGATTCTGAGTAGCAGGGCAGCATGCCAGTGGGCTGGGTCCCGGAGGGATTCCGGAATTGA
GGGGCACGCAGGATTCTGAGCACCAAGGGCAGAGGCCAGACAACCTCAGGGAGGAGTGTCTGGCGTCCCCA
TCCTCCAAAGGGCTGGGCCCGAGGGGGAGCAGCAGAGGGAGCTCCCCATCCCCGGTCACTCCACCCCTGCC
CCGTCCACTTCCCATCTCTCGGTATAAAATCATGTTATAAGTTAGGAAGAACCGGGACATTTACAGAAAAAA
AAACAAAAAAACAACAAAAATACGTGGAAAAAAAAAAAAAAA

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FIGURE 474

MGNVLAASSPPAGPPPPPAPALVGLPPPPSPPGFTLPPLGSSLGAGTSTSRSSETPGAATASASGAAEDGACG
CLPNPGTFEECHRCKELFPIQMEGVKLTVNKGLSNHFQVNHTVALSTIGESNYHFGVTYVGTKQLSPTEAFPVL
VGDMDNSGSLNAQVIHQIQLGPGLRSKMAIQTQQSKFVNWQVDGEYRGSDFTAATLGNPDVLVGSGILVAHYLQSI
TPCLALGGELVYHRRPGEEGTVMSLAGKYTLNNLATVTLGQAGMHATYYHKASDQLQVGVEFEASTRMQDTSVS
FGYQLDLPKANLLFKGSVDSNWIVGATLEKKLPPPLTLALGAFLNHRKNKFQCGFGLTIG

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FIGURE 475

GCAGAGGCGCAGGTAGATGGAGTTGGGAGTTCGCTGGAGGGCGGGAGGGAGGCAGGAGGAAGAGGGCGAGCC
TGAGGTGAAAAACCGCGACTCTGTGTGAGGTTGCCTCGCTCGCAAGCTGCATGCCAGTGGCTCAGTG
CTTCCTGGCGAGAACGACTGGAGATGGAAAGGGCTCTGAACCTCTACTTCGAGCCTCCGGTGGAGGAGAGCGC
CTTGGAACGCCGACCTGAAACCATCTGAGCCCAGACCTATGTTGACCTAACCAATGAAGAAACAACGATT
CACCACTTCTAAAATCAGCCCATCTGAAGATACTCAGCAAGAAAATGCCAGCATGTTCTCTCATTACCTGGAA
TATTGATGGATTAGATCTAACAACTGTCAGAGAGGGCTCGAGGGGTGTTCCACTTAGCTTGTACAGCCC
AGATGTGATATTCAGGAAGTTACCCCCATATTATAGCTACCTAAAGAAGAGATCAAGTAATTATGAGAT
TATTACAGGTATGAAGAAGGATATTCACAGCTATAATGTTGAAGAAATCAAGAGTGAAGAAATTAAAAGCCAAGA
GATTATTCTTTCAAGTACCAAAATGATGAGAAACCTTTATGTTGATGTCAGGAAATGAGCT
TTGCCTTATGACATCCCATTGGAGAGCACCAGAGGGCATGCTGCGAACGAATGAATCAGTTAAAATGGTTT
AAAGAAAATGCAAGAGGCTCAGCTACAGTTATTTGAGGAGATAAAATCTAAGGGATCAGAGGT
TACAGATGTGGTTTACCAACACATTGTGGATGTCAGGAGTTTGGCAAACCTAAACATTGCCAGTA
TACATGGGATACACAAATGAACCTAACTGGAAACTGCTGCTGTAAACTCGTTGATCGAAATATTTT
CAGAGCAGCAGCAGAAGAGGGACACATTATCCCGAAGTTGGACCTTCTGGATTAGAAAAACTGGACTGTGG
TAGATTCCTAGTGTACTGGGTCTGTGCAACTTAGATATAATTGTAAATGCTTCAAGTGTGGT
TTGCCCTGATTGTTGCAAATACAATTCCACCTCTGAAAGGTAGGTTGCTGTGGAGGAAATAATGTACTAG
ATCATTGTCACAGAAAAACCAACTATGATTATGGTTGTGTTTCAGAATTCAACATTAAAGATTAATGTTATT
TAAACGAACACATTCTGCATTCAAGATGTGAGGCCATTAAATAAAAGGCACAAAGCTGTCAGAGTTCAA
CGGTGCTTATAGCTGCCAGCTGGATTCCAAACAGGTACCCATTGTCCTGAGCTAATGTTATATTTCCATT
CAGGCACCGAAATAGTTAATATTAAAATAAGTCTCAAAAGAAAACATAAGAGATTATTGAGTTCTGGGACTG
GATCCTTATTCATAAGTCAGATCATCTAAATGAAATGCCATGATTATGTCAGTTAAGTAGATGACAGCT
ATTCTACATCAGACTGATTGTCAGCTAATTACATAATTGTAAGCTATAATTGAAACCTTATGGCTTAAA
TTCCTTAACTCCTTTGATTGATGTTGTAGTCATGTTGTCACAGAGGGCAAAGTTAAGCTTGTGATGGTTAA
AATCGGTTGATAGCACCAGGGACATTCTAACAAAATAATGCATGAAGAGACATAGCCTTTAGTTG
CTAATTGTAAGGAAATGTTACAGGAAGTAAATGCAAATTACTTTAAGTGTGCTTAAAGAAAAATATT
CCCCACAAGAGAAATTAAATAAGAATTATTGTTAAAAAAAAAAAAAAAAAAAAAA

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FIGURE 476

MELGSCLEGGREAAEEGEPEVKRRLLCVRFASVASCDAAVAQCFLAENDWEMERALNSYFEPPEESALERPE
ETISEPKTYVDLTNEETTDSTTSKISPSEDTQQENGSMFSLITWNIDGLDLNNLSERARGVCSYLALYSPDVIFL
QEVIPIYYSYLKRRSSNYEITGHEEGYFTAIMLKKSRVKLKSQEIIIPFPSTKMMRNLLCVHVNVSgnELCLMTS
HLESTRGHAAERMNQLKMVLKKMqeapesatvifagdtndlrdrevtrcglpnnivdvweflgkpkhcqytwdtq
MNSNLGITAAACKLRFDRIFFRAAAEEGHIIIPRSIDLGLLEKLDGGRPPSDHWGLLCNLDIIL

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FIGURE 477

CGCGCTTGTGGAGCTGGGGCGCTCCGCAGGGGCTCGCTGTTCCGCGGGCAGGCAGGCCATGGCGCA
GCTGGGAAAGCTGCTCAAGGAGCAGAAGTACGACCGGCAGCTGAGGTGTGGGGTATCATGGCAAGAGGCTT
AGAACATGCTCATGTTGCCTAATAAATGCAACAGCCACAGGAACAGAAATTCTAAAAACTGGTACTACCAGG
TATTGGTCGTTACAATTATTGATGAAATCAGGTAGCGGAGAAGATGCTGGAAACAATTCTTCCTCAAAG
AAGCAGTATCGGCAAGAACCGAGCTGAAGCTGCCATGAAATTCTACAAGAATTAAATAGCAGTGCTGGAAAG
TTTGTGGAAGAGAGTCCAGAAAACCTCTAGACAATGATCCCTATTCTGTAGGTTACTGTTAGTTGC
AACTCAGCTCCTGAAAGCACCTCACTACGCTTAGCAGATGCTCTGGAATTCCCAGATTCTCTTGTACTG
TAGGACATATGGACTAGTTGGTTATATGAGGATCATTATAAAAGAACATCCAGTAATAGAACATCTCATCCAGATAA
TGCATTAGAGGATCTACGACTAGATAAGCATTCTGAACAGAGAACATTTCAGTCATGATTGGATCA
TATGGAAAAAAAGGACCACAGTCATACTCCATGGATTGTGATCATAGCTAAATATTAGCACAGTGGTATAGTGA
AACAAATGGACGAATACTAAACGTATAAAGAAAAGAGGACTTCAGAGATTGATTAGACAAGGAATTCTAAA
AAATGAAAATGGGCTCCAGAACAGATGAAGAGAACATTGAAAGAACAGCTATTAAATGTGAACACAGCACTAAATAC
AACTCAGATCCAAGCAGTATTGAAGATATTTAATGATGATCGCTGCATAAAATACCAAAACAGACTCCATC
ATTTGGATTTAGCTCGTGCCTAAAGGAATTGTGGCAAAGAGGGTCAAGGAAATTACCTGTTGAGGCAC
AATTCTGATATGATTGCAGATTCAAGGCAAATATATAAAACTGCAAAACGTTACCGTAAAAAGCAAAGAAAGA
TGCTGCCGTGTGGTAATCATGTTGCCAATTGCTGCAGTCATTGCCAGGCACCAGAGTCATTTCAGAGAA
AGAATTAAAATTACTCTGCAGCAATTCTGCATTCTCGAGTGGTAAGATGTCGATCCTAGCTGAAGAATATGG
TTTGGATACAATTAACAAGGATGAAATTATTCTAGCATGGACAATCCAGATAATGAAATAGTGTACTTAAT
GTTACGGGCTGTTGATAGATTCTAAACAACAGGGTAGATATCCAGGAGTATCTAACTATCAAGTTGAAGAACAGA
TATAGGAAAAGTTGAAGTCTTGTCTCACTGGCTCCTCAGGAATATGGTTATCTGTAATGGTGAAGATGATTA
TGTCCACGAATTTCGCCATATGGAGCTGCTGAGCCACATACCAATTGCTGCATTCTGGGGGAGCTGCTGCTCA
AGAGGTCACTAAAATAATCACCACAAATTGTAATTAAATAACTACATTACAGTGGCATGTCACAAAC
TTCAGCAACTTCCAGTTGAGTAAGCAAGCACCTTAAGTAGTGTGTTAATGAAACTGTAATTGCCTTC
GGGTTGTGTTAGTCTGAAATTCTAAAGGAGAGCTGCTAAATTGTTCTAATAAACATTTCATTTG
AAAAAAAAAA

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FIGURE 478

MAQLGKLLKEQKYDRQLRLWGDHGQEALESAHVCLINATATGTEILKNLVLPGIGSFTIIDGNQVSGEDAGNNFF
LQRSSIGKNRAEAAMEFLQELNSDVSGSFVEESPENLLDNDPSFFCRFTVVVATQLPESTSRLADVLWNSQIPL
LICRTYGLVGYMRIIIKEHPVIESHPDNALEDLRLDKPFPELREHFQSVDLDHMEKKDHSHTPWIVIIAKYLAQW
YSETNGRIPKTYKEKEDFRDLIRQGILKNENGAPEDEEAIAKVNNTALNTTQIPSSIEDIFNDDRCINITKQ
TPSFYWILARALKEFVAKEGQGNLPVRGTIPDMIADSGKYIKLQNVYREKAKDAAAVGNHVAKLLQSIGQAPESI
SEKELKLLCSNSAFLRVVRCRSLAEYGLDTINKDEIISMDNPDNEIVLYLMLRAVDRFHQQGRYPGVSNYQV
EEDIGKLKSCLTGFLQEYGLSVMVKDDYVHEFCRYGAAEPHTIAAFLGGAAAQEVIKIITKQFVIFNNNTIYSGM
SQTSATFQL

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FIGURE 479

AGGGACAGCCCAGAGGAGGCCTGCCACGCTGCCGGCGGAAGTGGAGGCCCTCCCGAGCGCGCGAGGCCGCCGGG
GCAGGGCGGGAAACCGGACAGTAGGGCGGGGCCGGCGATGGGGATGCGGGAGCACTACGCGGAGCTGCA
CCCCTGCCCGCCCGAATTGGGATGCAAGCAGCGGAGCGGGTATGGCAGGCAGCCGGCGGGCCGGCTCCAGC
GCAGGTGCCCGAGAGGCAGGGCTGGCTGGGATGCGCGCACCTGCCCTGCCCGCCCCGCCGACGAGGG
GTGGTGGCCGAGGCCCGCCCCGCACGCCCTGCCCTGAGGCAGGGTCCGCTCAGGCCAGGCAGGCCGCCCGCCCC
GCCGATTAAATGGCCGGCGGGCTCAGCCCCCGAAACGGTCGTAACTCAGGGCTGCGAGCGCGAGGGCGAC
GACGACGAAGCGCAGACAGCGTCATGGCAGAGCAGGTGGCCCTGAGCCGGACCCAGGTGTGCGGGATCTGCGGG
AAGAGCTTTCCAGGGCGATGCCCTCATCAGTCGGATAACACACATATTATCATCATGGGTGCATGGGTGACC
TGGCAAGAAGAAGATCTACCCACCATCTGGTGGCTTCCGGATGGCCTCTGCCGAAAACACCTTCATCG
TGGCTATGCCCGTTCCGCCTCACAGTGGCTGACATCCGCAAACAGAGTGAGCCCTTCAAGGCCACCCAG
AGGAGAACGCTCAAGCTGGAGGACTTCTTGCCGCAACTCTATGTGGCTGGCCAGTACGATGATGCAGCCTCCT
ACCAGCGCCTAACAGCCACATGGATGCCCTCCACCTGGGTACAGGCCAACGCCCTTCTACCTGGCCTTGC
CCCCGACCGTCTACGAGGCCGTACCAAGAACATTACGAGTCCTGCATGAGCCAGATAGGCTGGAACCGCATCA
TCGTGGAGAACGCCCTCGGGAGGGACCTGCAAGAGCTCTGACCGGCTGCAACACATCTCCTCCCTGTTCCGTG
AGGACCAAGATCTACCGCATGCCACTACCTGGCAAGGGAGATGGTGCAGAACCTCATGGTGTGAGATTGCCA
ACAGGATCTCGGCCCCATCTGGAACCGGGACAACATCGCCTGCGTTACCTCACCTCAAGGAGCCCTTGGCA
CTGAGGGTCGCGGGGGCTATTGATGAATTGGGATCATCGGACGTGATGCAAGAACCTACTGCAGATGC
TGTGTCTGGTGGCCATGGAGAACGCCCTCCACCAACTCAGATGACGTCCGTGATGAGAACGTCAGGTTGA
AATGCATCTCAGAGGTGCAGGCCAACATGTGGTCTGGCCAGTACGTGGGAACCCGATGGAGAGGGCGAGG
CCACCAAAGGGTACCTGGACGACCCCACGGTGCCCCGCGGTCCACCCACGCCACTTTCAGCCGTGCTCCTCT
ATGTGGAGAACGGTGGGATGGGTGCCCCATCCTGCGCTGCGCAAGGCCCTGAACGAGCGCAAGGCC
AGGTGAGGCTGCACTTCCATGATGTGGCGACATCTCACAGCAGTGCAGCGAACGAGCTGGTATCC
GCGTGCAGCCAACGAGGCCGTACACCAAGATGATGACCAAGAACGCCGGCATGTTCTCAACCCGAGGAGT
CGGAGCTGGACCTGACCTACGGCAACAGATAACAAGAACGTGAAGCTCCCTGACGCCACTGAGCGCCTACCTGG
ACGTCTCTGCGGGAGGCCAGATGCACTCGTGCAGCGACGAGCTCCGTGAGGCCCTGGCTATTTCACCCAC
TGCTGCACCAAGATTGAGCTGGAGAACGCCAACCCATCCCTATATTATGGCAGCCAGGCCACGGAGGCAG
ACGAGCTGATGAAGAGAGTGGTTCCAGTATGAGGGCACCTACAAGTGGTGAACCCCAAGCTTGAGCC
TGGGCACCCACCTCCACCCCGCCACGCCACCCCTCCGCCGCCCCGACCCGAGTCGGAGGACTCCGGGA
CCATTGACCTCAGCTGCACATTCTGGCCCCGGCTCTGGCCACCCCTGGCCGCCCTCGCTGCTACTACCC
GAGGCCAGCTACATTCTCAGCTGCCAAGCAGTCACTCGAGACCATCCTGGCCCTCCAGACCTGCTGAGGCCAGGA
GCTGAGTCACCTCCACTCACTCCAGGCCAACAGAAGGAAGGAGGAGGGCGCCATTGCTGTCCCAGAGCT
TATTGGCCACTGGGTCTCACCTGAGTGGGCCAGGGTGGGAGGGAGGGACAAGGGGGAGGAAAGGGCGAGCA
CCCACGTGAGAGAACATGCTGTGGCTTGGCCAGCCTCAGTGCACATTGACATTCTGTCACCAGCAACA
TCTCGAGCCCCCTGGATGTCCCCTGTCCACCAACTCTGCACCTCATGCCACCCGTGCCACCCGTAGGCAGCC
TCTCTGCTATAAGAAAAGCAGACGCAGCAGCTGGAGCCCTCCAAACCTCAATGCCCTGCCATTAAATCCGCAA
CAGCCAAAAAA

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FIGURE 480

MAEQVALSRTQVCGILREELFQGDAFHQSDFHIFIIMGASGDLAKKKIYPTIWWLFRDGLLPENTFIVGYARSRL
TVADIRKQSEPFFKATPEEKLKLEDFFFARNSYVAGQYDDAASYQRLNSHMDALHLGSQANRLFYLALPPTVYEAV
TKNIHESCMSQIGWNRIIVEKPFGRDLQSSDRLSNHISSLFREDQIYRIDHYLGKEMVQNLMLRFANRIFGPIW
NRDNIACVILTFKEPGTEGRGGYFDEFGIIRDVMQNHLQLMLCLVAMEKPASTNSDDVRDEKVVKVLKCISEVQA
NNVVLGQYVGNPDGEGEATKGYLDDPTVPRGSTTATFAAVVLYVENERWDGVPFILRCGKALNERKAEVRLQFHD
VAGDIFHQQCKRNELVIRVQPNEAVYTKMMTKKPGMFFNPEESELDITYGNRYKNVKLPDAYERLILDVFCGSQM
HFVRSDELREAWRIFTPLLHQIELEKPKPIPYIYGSRGPTEAELMKRVGFQYEGTYKWVNPHKL

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FIGURE 481

AGCTGAGGTGTGAGCAGCTGCCGAAGTCAGTCCCTGTGGAGGCCGGACTGGCGCGATTGCCGAGGCACCGA
GGCACTCAGAGGAGGTGAGAGAGCGCGCGCAGACAACAGGGACCCCGGGCCGGCCCAGAGCGAGCCAAGC
GTGCCCGCGTGTCCCTCGCGTGTCCCGAGGATGCGTGTGCGGGGTGTGCTCGTTCACAGGTGTTCTGC
GGCAGGCGCC**ATG**TCAAACCGCTGGGATGTCCGTCAAACCCATCGGCAGCAAGGCCTGCCGCCCTCTT
CGGCCAGTGGACAGCGAGCAGCTGAGCCCGACTGTGATGCGCTAATGGCGGGCTGCATCAGGAGGCCGTGA
GCGATGGAACTTCGACTTGTCAACGAGACACCACGGAGGGTGAACCTCGCCTGGAGCGTGCGGGGCTTGG
CCTGCCCAAGCTCTACCTTCCCACGGGGCCCGCGAGGCCGGATGAGTTGGAGGGAGGCAGGCGCCCTGGCAC
CTCACCTGCTTGCTGCAGGGGACAGCAGAGGAAGACCATGTGGACCTGCACTGTCTGTACCCCTTGCCCTCG
CTCAGGGGAGCAGGCTGAAGGGTCCCAGGTGGACCTGGAGACTCTCAGGTCGAAACGGGGCAGACCAGCAT
GACAGATTCTACCACTCCAAACGCCGCTGATCTCTCCAAGAGGAAGGCC**TA**ATCCGCCACAGGAAGCCTG
AGTCCTGGAAGCGCGAGGCCCTAAAGGCCGCTACATCTCTGCCCTAGTCTCAGTTGTGTCTTAATT
TTATTGTGTTTAATTAAACACCTCTCATGTACATACCCCTGGCCGCCCTGCCCTCAGCCTCTGGCATT
GAATTATTAACAAAAACTAGCGGTTGAATGAGAGGTTCTAACAGAGTGTGGCATTATTTATTTATGAAATA
CTATTTAAAGCCTCTCATCCGTGTTCTCTTCCCTCTCCGGAGGTTGGGTGGGCCGCTTATGCCAGC
TACTTCCCTCCCCACTTGTCCGTGGGTGGTACCCCTCTGGAGGGGTGTGGCTCTCCATCGCTGTCACAGG
CGGTTATGAAATTACCCCCCTTCTGGACACTCAGACCTGAATTCTTCATTGAGAAGTAAACAGATGGCA
CTTGAGGGGCCTCACCGAGTGGGGCATCATAAAAACTTGGAGTCCCCTCACCTCTAAGGTTGGCAG
GGTAGCCTGAAGTGAGCACAGCCTAGGGCTGAGCTGGGACCTGGTACCCCTGGCTTGTACCCCT
GTCTTGTGAAGGCAGGGGAAGGTGGGTCTGGAGCAGACCAACCCGCCCTGCCCTCATGGCCCTCTGACCTG
ACTGGGAGCCGCTCAGTGTGAGCCTTCCCTCTTGGCTCCCTGTACCTTGTAGGAGGCCAGCTACC
CTTCTCTCCAGCTGGCTCTGCAATTCCCTCTGCTGTGCTGCTCCCTCCCTGTGCTTCCCTCAGTACCCCTC
TCAGCTCCAGGTGGCTCTGAGGTGCCCTGCCCACCCCCACCCCCAGCTCAATGGACTGGAAGGGGAAGGGACACA
CAAGAAGAAGGGCACCCCTAGTTACCTCAGGCAGCTCAAGCAGCGACGCCCTCCTCTAGCTGTGGGGGTGA
GGTCCCAGTGGTGGCACAGGCCCCCTTGAGTGGGTATCTGTGTTAGGGGTATATGATGGGGAGTAGAT
CTTCTAGGAGGGAGACACTGGCCCTCAAATGTCAGCGACCTCTCATCCACCCATCCCTCCCCAGTTCA
TTGCACTTGATTAGCAGCGGAACAAGGAGTCAGACATTAAAGATGGTGGCAGTAGAGGCTATGGACAGGGCAT
GCCACGTGGCTCATATGGGCTGGAGTAGTTGTCTTCTGGACTAACGTTGAGGCCCTGGAGGCAGCTGAAG
TGCTTAGTGTACTTGGAGTATTGGGTCTGACCCAAACACCTCCAGCTGTAAACATACTGGCCTGGACTGT
TTCTCTCGGCTCCCCATGTGCTCTGGTCCCTCCACCTAGACTGTAACACTCTCGAGGGCAGGGACAC
ACCCTGTACTGTTCTGTGTTACAGCTCCTCCACAATGCTGAATATACAGCAGGTGCTCAATAATGATT
TTAGTGACTTTAAAAAAAAAAAAAAA

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FIGURE 482

MSEPAGDVRQNP CGSKACRRLFGPVDSEQLSRDCDALMAGCIQE ARERWNFDFVTETPLEGDFAWERVRGLGLPK
LYLPTGP RRGRDE LGGGRRPGTSPALLQGTAEEDHVDLSLSCTLVPRSGEQAEGSPGGPGDSQGRKRRQTSM TDF
YHSKRRLIFSKRKP

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FIGURE 483

GTGGAACCTCGATATTGGTGGTGTCCATCGTGGGCAGCGGACTAATAAAGGCCATGGGCCAGCAGAAATCCTGA
 ACGGGAAGGAGATCTCCCGCAAATAAGGGCGAGACTGAAAAATCAAGTCACTCAGTTGAAGGGAGCAAGTACCTG
 GTTTCACACCACGCCCTGGCAATATTACAGGTGGAACAGAGATGATTCCAATCTTATATAATGTGAAGCTGA
 AGGCTGCTGAAGAGATTGGGATCAAAGCCACTCACATTAAGTTACCAAGAACACCACAGAACATCTGAGGGTATG
 AGTACATTACATCTTGAATGAAGACTCTACTGTACATGGGTCTTAGTGCAGCTACCTTAGATTAGAAGAATT
 CCATTAACACTGAAGAAGTGTCAATGTATTGCACCCGAGAAGGGATGTGGATGGATTGACTAGCATCAATGCTG
 GGAGACTTGCTAGAGGTGACCTCAATGACTGTTCTACCCCTGTACGCCCTAAGGGATGCTTGGAACTCATCAAAG
 AGACAGGGGTGCCGATTGCCGAGGCACTGTGTGGTGGTGGCGCAGTAAAATAGTTGGGCCCCGATGCATG
 ACTTGCTTCTGTGGAACAATGCCACAGTGACCACGCCACTCAAGACTGCCCATCTGGATGAGGAGGTAATA
 AAGGTGACATCCTGGTGGTTGCAACTGGTCAGCCTGAAATGGTAAAGGGGAGTGGATCAAACCTGGGCAATAG
 TCATCGACTGTGGAATCAATTATGTCCCAGATGATAAAAACCAAATGGGAGAAAAGTTGTGGGTATGTGGCAT
 ACGACGAGGCCAAGAGAGGGCAGCTCATCACCTGTTCTGGCGCGTAGGGCCATGACAGTTGCAATG
 TCATGCAGAGCACAGTAGAGAGTGCCAAGCGTTCTGGAGAAATTAAAGCCAGGAAAGTGGATGATTCACTATA
 ACAACCTAACCTCAAGACACCTGTTCCAAGTGACATTGATATATCACGATCTGAAACCGAACGCCATTGGTA
 AGCTGGCTCGAGAAATTGGCTGCTGTGAAGAGGTTAGAATTATATGGTAAACAAAGGCCAAAGTTCTGCTGT
 CAGCACTAGAACGCCCTGAAGCACCGGCCCTGATGGGAAATACGTGGTGGTACTGGAATAACTCCAACACCCCTGG
 GAGAAGGGAAAGCACAACATACAATCGGGCTAGTGCAGGCCCTGGTGCCTCTACCAAGAATGTCTTGC
 GTGTGCGACAGCCTCTCAGGGCCCCACCTTGGAAATAAAGGTGGCGCTGCAGGAGGCCGTACTCCAGGTCA
 TTCCTATGGAAGAGTTAACCTCACAGGTGACATCCATGCCACTGCAGCTAATAACCTCGTTGCTG
 CGGCCATTGATGCTGGATATTCATGAACCTGACCCAGACAGACAAGGCTCTTTAACCTGTTGGTGC
 TAAATGGAGTGAGAAGGTTCTCTGACATCCAATCCGAAGGTTAAAGAGACTAGGCATTGAAAAGACTGAC
 CCACACTGACAGATGAAGAGATAAACAGATTGCAAGATTGGACATTGATCCAGAAACCATAACTGGCAAAGAG
 TGTGGAACATGATAGATTCTGAGGAAGATCACGATTGGACAGGCTCCAACGGAGAAGGGTACACACCGA
 CGGCCAGTTGATATCTCTGTTGCCAGTGAACATTATGGCTGCTGGCTCTCACCACCTCTAGAAGACATGA
 GAGAGAGACTGGGAAAATGGTGGTGCATCCAGTAAGAAAGGAGAGGCCGTAGTGCAGGAGATCTGGGGTGA
 GTGGTGCAGTGCAGTGCTTATGAAGGACGAATCAAGCCAACTCATGCAGACACTGGAGGGCACTCCAGTG
 TTGTCATGCTGGCCCTTGCCAACATCGCACATGGCAATTCTCCATATTGCAGACCAGATGCACTCAAGC
 TTGTTGGCCCAGAAGGGTTGTAGTGACGGAAGCAGGATTGGAGCAGACATTGGAATGAAAAGTTTTAAC
 TCAAATGCCGGTATTCCGGCTCTGCCCAACGTTGGTGGTGTGCTTGCCTACTGCAAGGCTCTCAAGATGCAC
 GGGCGGGCCCCACGGTCAGTGCAGTGCCTCTCCAAAGGCTTACATACAGGAGAACCTGGAGCTGGTTGAAA
 AAGGCTTCAGTAACCTGAAGAAACAAATTGAAAATGCCAGAATGTTGGAATTCCAGTAGTGTGGCCGTGAATG
 CATTCAGACGGATACAGAGTCTGAGCTGGACCTCATCAGCCGCTTCCAGAGAACATGGGGCTTGTAGCC
 TGAAGTGCAGTGCAGTGGCAGAAGGGGCAGGGTGCCTAGCCCTGGCTCAGGCCGTCCAGAGAGCAGCACAAG
 CACCCAGCAGCTCCAGCTCTTATGACCTCAAGCTCCAGTTGAGGATAAAATCAGGATATTGCACAGAAGA
 TCTATGGAGCAGATGACATTGAATTACTCCGAAGCTCAACACAAAGCTGAAGTCTACACGAAGCAGGGCTTG
 GGAATCTCCCCATGCACTGGCTAAACACACTTGTCTTGTCTCACAAACCCAGAGCAAAAGGTGCTTACAG
 GCTTCATTCTGCCATTGCGACATCCGCGCAGCGTGGGGCTGGTTCTGTACCCCTAGTAGGAAC
 GCACAATGCCGGACTCCCCACCGGCCCTGTTTATGATATTGATTGGACCTGAAACAGAACAGGGTGAATG
 GATTATTTAAACAGATCACCATCTCAAGAAGCTACTTGAAGAGTCTGGCCAGTGTCTATTCA
 TGGGAGTTAGGAAGTATAAGTAAGCCAAGAGAAGTCAGCCCTGCCAGAACAGATGAAACTAATAGTAGGAGTT
 TCCCCAGAAGTCATTTCACTCATGTATAAAATTACATAATCATGCATGTCTGTTACTTTA
 GTGACGTTCCACAGAATAAAAGGAAACAAAGTTG

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FIGURE 484

MAPAEILNGKEISAQIRARLKNQVTQLKEQVPGFTPRLAILQVGNRDDS ONLY INVKLKAEEIGIKATHIKLPRT
TTESEVMKYITSLNEDSTVHGFLVQLPLDSENSINTEEVINAIAPEKDVGGLTSINAGRILARGDLNDCFIPCTPK
GCLELIKETGVPIAGRHAVVGRSKIVGAPMHDLLLWNNAVTITCHSKTAHLDEEVNKGDILVVATGQPEMVGE
WIKPGAIVIDCGINYVPDDKKPNGRKVVGDVAYDEAKERASFITPVPGVGPMTVAMILMQSTVESAKRFLEKFKP
GKWMIQYNNNLKTPVPSIDISRSCKPKPIGKLAREIGLLSEEVELYGETKAKVLLSALERLKHRRDGKYVVVT
GITPTPLGEGKSTTIGLVQALGAHYQNVFACVRQPSQGPTFGIKGGAAGGGYSQVIPMEEFNHLTGDIHAIT
AANNLVAAAIDARIFHELTQTDKALFNRLVPSVNGVRRFSDIQIRRLKRLGIEKTDPTTLTDEEINRFARLDIDP
ETITWQRVLDTNDRFLRKITIGQAPTEKGHTRTAOFDISVASEIMAVIALTTSLEDMRERLGKMMVASSKKGEPV
SAEDLGVSGALTIVLMKDAIKPNLMQTLEGTPVVFHAGPFANIAHGNSSIADQIALKLVGPEGFVVTEAGFGADI
GMEKFFNIKCRYSGLCPHVVLVATVRAKMHGGGPTVTAGLPLPKAYIQENLELVEKGFSNLKKQIENARMFGI
PVVVAVNAFKTDTESELDLISRLSREHGAFAVKCTHWAEGGKGALALAQAVQRAAQAPSSFQLLYDLKLPVEDK
IRIIAQKIYGADDIELLPEAQHKAEVYTKQGFGNLPICMAKTHLSLSHNPEQKGVPTGFILPIRDIRASVGAGFL
YPLVGTMSTMPGLPTRPCFYDIDLDPETEQVNGLF

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FIGURE 485

CGCGATTCTCAGGGATTGATCCGCCTTCAGGTAAGTTATCTTCCGGCCCCGTACCACTGTGCCACAGGCGCAG
 CCCGCTTCCTCAGGTGCCCTATCCCGCCAGAAGACCAACGGCTCACAGAGTGTATTTAAGGGCGTGCCAGCG
 GAACATCCCGCCCCATTCTGTGACGCACGGGTGGCGCGCTGGGACCCGAGGGGTGGGCTGGGTTAGTAGGA
 GACCTGGGGCAAGGCCCCCTGTGGACGACCATCTGCCAGCTCTCGTCCGATTGGGAGGAGCGGTGGCG
 ACCTCGGCCTTCAGTGTTCAGGGAGTGAATGGCGGCGGCGCTGGGATGCTGCTGCTGGGCTTGCTGCAGGC
 GGGTGGGTGGTGGCTGGGCCAGGCATGGAGAAGGTGACAGGCGCAACCTCTGTCCATGCTGCTGATCGCCTG
 CGCCTCACCCCTCAGCCTGGTCTACCTGATCCGCTGGCCGCCACCTGGTCCAGCTGCCGCAGGGTGAA
 AAGTCCTCCATACATTTCTCCCAATTCCATTCTGGCATGCCATAGCATTGGGAAAGTCCAATTGAATT
 TCTAGAAAATGCATATGAGAAGTATGGACCTGTATTTAGTTACCATGGTAGGAAGACATTACTTACCTTCT
 GGGGAGTGAATGCTGCTGCACTGCTTTAATAGTAAAATGAAGACCTGAATGAGAAGATGTCTACAGTCGCCT
 GACAACACCTGTGTTGGGAAGGGAGTGCATACTGATGTGCTTAATCCAGTTCTGGAGCAGAAGAAAATGTT
 AAAAGTGGCCTAACATAGCCCACTTAACACAGATGTTCTATAATTGAAAAGAAACAAAGGAATACTTGA
 GAGTTGGGAGAAAGTGGAGAAAAAAATGTGTTGAAGCTCTTCTGAGCTCATATTAAACAGCTAGCCATTG
 TTGCAATGGAAAGGAAATCAGAAGTCACTCAATGAAAAGGTAGCACAGCTGTATGCAGATTGGATGGAGGTT
 CAGCCATGCAGCCTGGCTTACCACTGGTGGCTGCCCTTGCTAGTTCAAGACGCAGGGACAGAGCTCATGGGA
 AATCAAGGATATTTCTATAAGGCAATCCAGAACCGCAGACAGTCTCAAGAAAAATTGATGACATTCTCCAAAC
 TTACTAGATGCTACATACAAGGATGGCGTCCTTGACTGATGATGAAGTAGCAGGGATGCTTATTGGATTACT
 CTTGGCAGGGCAGCATACTACACTAGTGTCTGGATGGCTTCTTTGGCCAGAGACAAAACACTTCA
 AAAAATGTTATTAGAACAGAAAACAGTGTGGAGAGAATCTGCCCTTAACTTATGACCAGCTCAAGGA
 TCTAAATTACTGATCGCTGTATAAAAGAAACATTAAGACTTAGACCTCCTATAATGATCATGATGAGAATGGC
 CAGAACTCCTCAGACTGTGGCAGGGTATACCATTCTCAGGACATCAGGTGTGTTCTCCACTGTCAATCA
 AAGACTTAAAGACTCATGGTAGAACGCCTGGACTTAATCTGATCGTACTTACAGGATAACCCAGCATTAGG
 GGAAAAGTTGCCATGTGCCATTGGAGCTGGCGTCATCGTTGATGGGAAAATTTCCTATGTTCAAAT
 TAAGACAATTGGTCCACTATGCTCGTTATATGAATTGATCTCATGATGGACTTCCACTGTGAATTA
 TACAACATGATTACACACCCCTGAGAACCCAGTTATCCGTTACAAACGAAGATCAATGAAAAGGTTGCAAGG
 AACGAATATATGTGATTACTGTAAGGCCACAAAGGCATTGAGAAGTGTACAAAACAACCTTGT
 GTTACTGTTTTTAAGTGTGTAATTCTAAAGCCAGTTATGATTTAGGATTTGTTAACTGAATGGTTCTAT
 CAAATATAATGACATTGACACATTCTAATAGTTATGATACTTATACATGTGCTTCAGGAAGTCCCTGGTG
 AAACAAATTGTTGAGGGGGATCTAGGTAATTGGCAGATTCTAAATAATATAATTCCAGATAGTAATTAAAGAG
 TACTCATCGCTCTGCCAATAAGTCAGGGTATTCAAATCTGGACTAGTCTGCAAGGTATAAGAATAAAA
 TCCCACTGAGACTTGGAAACCACAGTTATTATTTATCTGGCAATTATGTTGAGGATGGAAGG
 GTAGGGAAATAATCGAACATCTAAAGCCTGAATAAGAGAATACTAATTGTTGGTATGATGATACTCAGAAATG
 GAGATATTATAGGAAAAGAAATCTTGGAAATTAACTAAAATCACTGCAATATGGAAATTAAAGAGATCCAGG
 ACCATATTGATAAGAGTCTAAAGGAAATGTAATTATTAATGCTAAAGACTGCTCATGTATCTGATCTAATT
 ACTAAATAAATTACATATTATTCACCTGATAAAATGTTACTGATCTAGTTCTACAAGGTACATTATGTTGAAAGTCC
 AAAGTCAGTCCTAGGGATAATTGTTGGCTCAGTTGTTCCCTGCTTCTTTTTTTTTTTTT
 TTGAGATGGAGTCTGCTCTGGCCAGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGCACTCTGCCTC
 CGGGGTTCAAGCAATTCTCTGCCCTAGCCTCCCAAGTAGTTGGGATTACAGGCACCTGCCACCATGCCTGGCTAA
 TTTTTGTTATTAGTAGAGACGGGGTTTCACTATGTTGGCTAGGCTGGCTTGAACCTCTGAGCCTCGTGAG
 TCCACCCGCTGGCTCCAAAGTGTGGATTACAGGCATGAGCCACCGCACCTGGCTTCCCTGCTTCT
 CTAGAATCCAATTAGGGATGTTGTTACTACTCATATTGATTAACAAACAGTTAACAAACTTTTCTTTAAAAT
 GTGAGATCAGTGAACCTGGTTAAGATAATCTGAAACAAGGTCTGGGAGTAATAAAATTGGTCACATTCTG
 TAAAGCACATTCTGTTAGGAATCAACTTATCTCAAATTGTAACCTGGGCCAACTATATGAGATGGCTGAAAA
 AATACCAACATCGTCTGTTTCACTAGGGATGCCAAATATTGCTTATGTTGTTGTTGTTAAAAC
 ACTGGAAAGACTCATGTTAAACTCTAATTGTAAGGCAGAATCTGCTAATTTCAGATTAAATTCTCTTGA
 AAAAAT

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FIGURE 486

MAAAAGMLLLGLLQAGGSVILGQAMEKVTGGNLLSMLLIACAFTLSLVYLIRLAAGHLVQLPAGVKSPPIFSPIP
FLGHAIAGKSPIEFLLENAYEKYGPVFSFTMVGKTFTYLLGSDAAALLFNSKNEDLNAEDVYSRLTTPVFGKGVA
YDVPNPVFLEQKKMLKSGLNIAHFKQHVSIIIEKETKEYFESWGESGEKNVFEALSELIILTASHCLHKEIRSQL
NEKVAQLYADLDGGFSHAAWLLPGWLPLPSFRRRDRAHREIKDIFYKAIQKRRQSQEKIDDILQTLLDATYKDGR
PLTDDEVAGMLIGLLLQHTSSTS AWMGFFLARDKTLQKKCYLEQKTVCGENLPPLTYDQLKDLNLDDRCIKE
TLRLRPPIMIMMRMARTPQTVAGYTIPPGHQVCVSPVNQRLKDSWVERLDFNPDRYLQDNPASGEKFAYVPFGA
GRHRCIGENFAYVQIKTIWSTMLRLYEFDLIDGYFPTVNYTTMIHTPENPVIRYKRRSK

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FIGURE 487

ACCGCCGACGCAGACCCCTCTGCACGCCAGCCCCGCCACCCACC**AT**GCCACAGTCAGCAGCTGGAAGGA
AGATGGCGCCTGGTGGACAGCAAAGGCTTGATGAATAACATGAAGGAGCTAGGAGTGGAAATAGCTTGC
ATGGCGCAATGGCCAAGCCAGATTGTATCATCACCTGTGATGGTAAAAACCTCACCATAAAA
ACTGAGAGCACTTGAAACACAGTTCTGTACCCCTGGGAGAGAAGTTGAAGAAACCACAGCTGATGGCAG
AAATTGAAAGATGGAAATTAGTGGTGGAGTGTGTCATGAACAATGTCACCTGTACTCGGATCTATG
GAAT**AAAAA**ATTCCATCATCACTTGGACAGGAGTTAATTAGAGAAATGACCAAGCTCAGTTCAATG
GAGCAAATCTCCATACTGTTCTTCTTTTCTTACTGTGTTCAATTATCTTATCATAAACATTTACATGCAGCTAT
TTC
CAAAGTGTGGATTAATTAGGATCATCCCTTGGTTAATAAATAATGTGTTGTGCT

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FIGURE 488

MATVQQLEGRWRLVDSKGFDEYMKELGVGIALRKMGAMAKPDCIITCDGKNLTIKTESTLKTQFSCTLGEKFEETTADGRKTQTVCNFTDGALVQHQEWDGKESTITRKLKDGLVVECMNNVTCTRIYEKVE

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FIGURE 489

TTTTTTTTTACCATATGCTTATGTTATTGTACAGTCACAAGTTACATGTTGTAATAAGCAGAACACTG
TACCAAGTTTCACTAACTCAAATCAAGTTAGCAAATTACAAATTAGAACAGATTCAATTCTGTCTCACCCAA
TGTGGGTGACCACAAAGATATTACTTCTATGTTATTAGGTAGCAAATTAAATTGATATACTACACAGCTTCCA
AGTTACCTTAGGATATTCAAAGTGTTCAAAACTGGTAAAGAATAATTCAATTCCAGCCTGAAATAACATGCAG
AATGGACCATTAGGGTAAATAACCTCACTTAATCACTCTTCCTGGCTAACAAAATAACCAAATATTGG
GTTATAATTAGGGCTTACTAAAATTAAATGGXCCACTTGGAAATTATCCAGGATTGGXTACATTGGTAAAATG
GCCCTGGGGACCATTGGCXAAAAC

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FIGURE 490

TGGCCGAAGCAGGGGGACAGCAAGGGACGCTCAGGCAGGGACCATGGCGGACGGCGGCTGGAGCGGGCTGACGG
 GCGCATCGTCAAGATGGAGGTGGACTACAGCGCACGGTGGATCAGGCCCTACCCGAGTGTGCGAAGCTAGCAA
 GGAAGGAAGACTTCAGAAAGTCATTGAAACCCCTCTCTCTGGAAAAGCAGACTCGTACTGCTTCCGATATGGT
 ATCGACATCCCGTATCTTAGTTGCAGTAGTGAAGATGTGCTATGAGGCTAAAGAATGGGATTACTTAATGAAA
 TATTATGCTTTGTCCAAAAGGCGGAGTCAGTTAAACAAAGCTGTTGCCAAATGGTCAACAGTGCTGTACTTA
 TGTTGAGGAAATCACAGACCTCCTATCAAACCTTCGATTAATTGATACTCTACGAATGGTACCGAAGGCAAGAT
 TTATGTTGAAATTGAGCGTGCAGCAGTACTAAAACATTAGCAACTATAAAAGAACAAAATGGTGTGAAAGA
 GGCAGCCTCCATTTACAGGAGTTACAGGTGGAAACCTACGGGTCAATGGAAAAGAACAGGCGAGTGGAAATTAT
 TTTGGAGCAAATGAGGCTCTGCCTAGCTGTGAAGGATTACATTGAACACAAATCATCAGCAAGAAAATTAACAC
 CAAATTTTCAGGAAGAAAATACAGAGAAATTAAAGTTGAAGTACTATAATTAAATGATTCAAGCTGGATCAACA
 TGAGGGATCCTATTGTCTATTGTAAGCACTACAGAGCAATATATGATACTCCCTGTATACAGGCAGAAAGTGA
 AAAATGGCAGCAGGCTCTGAAGAGTGTGTACTCTATGTTATCCTGGCTCCTTGACAATGAACAGTCAGATT
 GGTTCACCGAATAAGTGGTGACAAGAAGTTAGAAGAAATTCCAAATACAAGGATCTTAAAGCTTTTACAC
 AATGGAGTTGATGCCTGGTCCACACTGTTGAGGACTATGGAATGGAATTAAGAAAAGGTTCCCTTGAGAGTCC
 TGCAACGGATGTTTGGTTCTACAGAGGAAGGTGAAAAAAAGGTGGAAAGACTTGAAGAACAGAGTTGTTGAACA
 TAATATTAGAATAATGGCCAAGTATTAACTCGGATAACAATGAAAAGGATGGCACAGCTCTGGATCTATCTGT
 TGATGAGTCCGAAGCCTTCTCAAATCTAGTAGTTAACAGACCCTTGTCAAAGTAGACAGATTAGCAGG
 AATTATCAACTTCCAGAGACCCAAGGATCCAATAATTAAATGACTGGTCTCAGAAACTGAACCTACATTAAT
 GTCTCTGGTTAACAAAATACGCATCTCATAGCCAAAGAGGAGATGATACTACAATAAGGTCTTAGTG
 CTTTAGAAAAAAAGTTAAATTGGAAGTCATTAAAAAAAGACTGTTATAATGGTGTATATGTTGGGTTTTTC
 TAAGCTCTTGTCTTAAATTAAATAGTGAATATGTTGAGACTCCCTTGACCTTCAGTCCCCAAGTTC
 ATTGTTAACTTGCATTGCAATTGGTGCAAAATACAGATTCTGTCTGAATAACACAAAAAGTTGTGTCT
 AACCTACCCAGATATGTTTCTATCATTGAAACCTTTAGCTACTGTTGTTCTTCAACTAACAAACAT
 ATTCCAATAATAAAAGCAGTATATACATATTCCCTTCTACAGTTACCTCTGATTCTCAACACATTGTGGGTAG
 TGATTTGGCAAGTGTAAAAACAAATCTCATTGTAAGTTATCAGTCATTAGTAGAATAGAAAAGCA
 ACATAGAGCATAACAAGAACATTGGGATAGAGTTGTGATTGTAAGAATTGTAATTGATATTGTGGCGGAAA
 GTCTAGACTGAGTGTGTATGCTGGTAAACTGTAGACTTTTTTTTGAGTCCGGCTGGTCCAATCAC
 GTAGCTTGATTGCTTTCAGCCCTCATCCTCTCACTGATCAGTTGTTCAACAGAACAGTGCACATAATTGACAC
 AGTTATTGGGTGTTAAGTCCGCTCTAGGGATAGTAGACTACTTTTTTTTTGCTCTTCT
 CTCTCCCCCTTCTTATATGGTTAAATTAAACATAAAAGTGTGTTATAAGGCTTATTGTGGCTTAACTTG
 TAAGTCTGATTACATCATTATTGTCAGGAAATTCAATTCTGTTGAGGACTTTAGTTCCATTATATGAAACACTG
 GATAACCTAATTTTTAATGCTTAAAAAAAGCAGTCAGGCCACCCCTCATAGTAAGTGGTGTAG
 TATTAAAATATTTCACGAAATTAAAGTAGCTTGCTGTCAAAGAACACCTGAGATGAATTGGTGTGAACGAAT
 TTGCAAGTTAATTGATTATTTCAGAGAAAATGAAAAAACATGTTAGAAGGTTATTAAAATGATACTTA
 AATAAAGAAAGTGTGAGGTCTACTTAAAAAAATTCAAATGAAGAGAAAAGAACAGCATTCTAGAAATGGC
 ATTCTCTAATTAAATTCCACTTAATGGAAGATTCAATTGCTTATTTATGATCCAGGACTGAAGACAG
 TTGTTGGGATATCTGTCATTATCCTGTGAGTCATTGTGAATAATGACACATACAGTACTGAAGTAATCTGATT
 ATTCTTGGAAATTCAATGCAATTGGTCAACTAAACATCAACATCTGCTATCATTATCTTAAACACACACTAGGC
 TCTTTGTGTTATTGATTCACTGCTATTGTAACTGTGCTCCAGTGACCAAATTGCACTCGACTCGATCAGCTGT
 TCATCCATTCTGTGTTTCTGTCAAACATTAATCCAGCAAATATGAGGTATTACCAATTATTCTTA
 GTATTACAAAATAATTCAATTAGCATAAAGTACAATAGTGAATATTGAGTTGTTGGAACCTCAATTAACTCTG
 TTTTACATTCTAGACCTAAAGCTGGCAATCAGGAGAAGAAGCACTTTGTTAAATGTGGAGAAGATAACACTTG
 ATTCCATTCTGTCATTAGTGTATTAAACCAGCAGGAGAGGTGATGAGCCATTTCAAATGAAATACCTTTA
 TTTCCATATAATTTTTATTAGTTAGGTTCAATAGCTGTTCTATGATTATCCTCAATTCCATATGTTACTGAA
 TCTGAAAACATCTTAAACAGTCCATTCTCTGTAAAGTGTAAATGTGATAAAAGTACATAT
 TTTAAATTGTTTCAGCTTGGATATAGCAGCAATAAAACACTAATTGTTGGGTATTAAAGAAAACCTGGAGA
 ATAAACTCATACTTTAAAGATC

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FIGURE 491

MADGGSERADGRIVKMEVDYSATVDQRLPECALKAKEGRLQEVIETLLSLEKQTRTASDMVSTSRLVAVVKMCY
EAKEWDLNLNENIMILSKRRSQLKQAVAKMVQQCCTYVEEITDLPPIKLRLIDTLRMVTEGKIYVEIERARLTKTLA
TIKEQNGDVKEAASILQELQVETYGSMEKKERVEFILEQMRLCLAVKDYIRTQIISKKINTKFFQEENTEKLKLK
YYNLMQLDQHEGSYLSICKHYRAIYDTPCIQAESEKWQQALKSVVLYVILAPFDNEQSDLVHRISGDKKLEEIP
KYKDLLKLFTTMELMRWSTLVEDYGMELRKGSLSPATDVGSTEEGEKRWKDLKNRVVEHNIRIMAKYYTRITM
KRMAQLLDLSVDESEAFLSNLVVNKTIIFAKVDRLAGIINFQRPKDPNNLLNDWSQKLNSLMSLVNKTTHLIAKEE
MTHNLQ

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FIGURE 492

TTGGTCTAAGACATGGGCTGACAAACTTTCCATAAAGGCCAGAAAGTAAATATTCAGGCTTGAGGATAT
CTATTTATGATTATTTACTCCTAGTATTATTCATCTTATACAGGTATTAAGGTTAGTATTGTCGCATAA
CAAATTACTCCAAAATTAAATCATTTATTCAGAAGAGTCAGCTGCTAGGTTCTTATTTGGACTCTCATG
ATGCTGAGGTCAAGATGCCAGCTGGAGGCCAGGCCCGCAGCTCACGCCGTAAATCCCAGCCTTGGGAGGCCA
GGGCCTCCAAAATTCAAAAGGAAGAGACAAAGTCCACATCTGTCATGCAAGAATGGAAGGTACATATCAT
ATGTGGAGCGGGACATAACAACCTCGGAAATTAAATCTCTCCCCAGGTCAGTGTGCGGGCCTCCACGCTGCCA
GCGAACACTGGAATGGCGGAAGGGGAAACGGGTACGGCAGGGGGAAAGGCTGGGGTGGGGTCGGGTGAGTCGA
GGGAAGCTGGCCCAGTGTGGACAGAGATGGCGGTCTGCGCTCTGTTGTTCCCAGCCTCTGCGAAGCCTGAAA
AGGAGGAGCAACCTGTCAGAATCCCCCAGGTCGTAAAGACAGGAAAGGAGGGAAATCTGACATGGAAA
AACTCTACAGTGAAGGAAATGGCTCAAACCAAGGAAAGATGAAAGAACAGCCACAAGACGAGA
GAAAGCCAGAAGTAACCTGACTCTGGAAGACAAGAAGTTAGAAAACCAGGGAAAGACAGAAACAAGGGCAAAA
CAGGAGATGAGGAAATGTTAAAGGATAAAGGAAAGCCAGAGAGTGAGGGAGAGGCAAAGAAGGAAAGTCAGAGA
GGGAGGGAGAGTCAGAGATGGAGGGAGGATCAGAGAGAGAGGGAAAACCAGAGATAGAGGGAAAGCCAGAGAGTG
AAGGAGAGCCAGGGAGTGAAACAAGGGCTGCAGGAAAGCGCCAGCTGAGGATGATGTACCCAGGAAAGCCAAAA
GAAAAACTAATAAGGGCTGGCTTACCTCAAGGAGTATAAAGAGGCCATACATGATATGAATTCAAGCAATG
AGGACATGATAAGAGAATTGACAATATGGCTAAGGTGCAGGATGAGAAGAGAAAAAGCAAACAGAAATTGGGG
CGTTTTGTGGATGCAAAGAAATTACAGGACCCCTCTACCCTAGAGGTCCAAGGGAAATTAGGGTGGCTGCA
GGGCCACGAAGGGACATTGAAGACATTCTTATGTGTAGGTCCCTGGCAGGATTACCAAGGCCATGTGCTT
TAACGTTACGGAATACTTACTTTAGGCATCCCTCTGTTGCTAGCAGCCTTGACCTATCTGCAATGCAAGTG
TTCTCAGTAGGAAATGTCATCTGTTACATGGAAAAATGTTGATGGTCATTGAAATTAAAAACACAACCTT
GCAGAACCAAAAAAA

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FIGURE 493

MPAGGQAPQLTPVIPAFWEARGLPNSKGRDKVHICQCEEWKGHISYVERDITTSEIKSLPQSVRAFHAASTLE
WRKGNGYGRGKGWGGRVESREAGPSVDRDGGLRVCCSQRSAKPEKEEQPVQNPRRSVKDRRRGNLDMEKLYSE
NEGMASNQGKMENEEQPQDERKPEVTCTLEDKKLENEGKTENKGKTGDEEMILDKGKPESEGEAKEGKSEREGES
EMEGGSEREGKPIEGKPESEGEPEGSETTRAAGKRPAAEDDVRKAKRKTNKGLAHYLKEYKEAIHDMNFSNEDMIR
EFDNMAKVQDEKRKSQQLGAFLWMQRNLQDPFYPRGPREFRGGCRAPRRDIEDIPYV

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FIGURE 494

ATAAATATTGAAATGACAACCTTAACAATTCTATATGTACACAGGACACTGAAAACATAAAATCATGAACAAAGG
CCAAAAAATAACGTTGCACATTAACCCCTTAGTTATTACTTTCTATTTCCAGTCCCAGCAGCATACCTGCTAAT
TACTCAGATCACAAGCCTCAAGGATTAAGTGTGTTGAATGTATTCAGTTCAACTTAAACAATGCTAAAGAC
TATTGGTTGTATTCTGATCAAATGGTCTCCTCCATATTCCTTCTCAATAGATCTTANACAAAAAGGTGA
GCAGGGAAAACGTGATTACAGGATCCAACATGACAGGTATACCAATGATTCACTTAAGGGTGGCATAAAGTTA
TATAGAAAAGACCTACAGGACGGAAGACAAGTACATCAACATGTAGTGAAATTAAGCAGTTCACCCACTGCGTGC
TTACATGGCTCCTATATCTTCGGGAAGAAGCCAGAGCCGTAGAAGAAGTCAGGGCAAACCAGAACTGTTGAGG
AGTATGGGTGGGGGGCAGAAGGAAGGGACTGGGGAAAA

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FIGURE 495A

GTACTCTCGCGGTATTGTCCGACTCTCGCGGGGTTAGCGTGGCATTGGGAGGCCGCCTGGGGAGGAGAC
 GGCCTTCGTTAGCGCGTTGGCTGCAGTGGCAGTGCTCTCTGCTCACGGGGACCGCCTCAG
 CTGGAGGCCAGCTCTGCCACCTCGTCGCGATGGGGCGCAGGACGGCCGAGTGCACCTCGACA
 TCGAGATCAACCAGGGAGCCGTTGGTGCATTATGTTAGCTCTCAGACATATGTCCAAAACATGCAA
 ACTTCCTTGCTTGCTCAGGAGAGAAAGGCCTGGAAAACAACACTGGGAAGAAGTTATGTTATAAAGGTTCTA
 CGTTCCATCGTGTGGTAAAAACTTATGATTAGCTGGGACTTCAGTGAAGGTAATGGAAAAGGTGGAGAAT
 CAATTATGGTGGATATTTAAAGATGAAAACCTTATTCTCAAACATGACAGAGCGTCCCTTATCAATGGCAA
 ATCGAGGGAAACATACCAATGGTCCCAGTTTCACTTACCAACAAAGCCTGCTCACACCTGGATGGGTGCATG
 TAGTCTTGACTGGTATTCTGGTTGAAGTAATGAAACAAATTGAAAATCTGAAGACCGATGCTGCAAGCA
 GACCATATGCAGATGTGCAGTTATTGACTGTGGAGTACTGCCACAAATCAATAAAAGATGTTTGAGAAAA
 AAAGGAAGAAACCAACTCATTAGAGCTCGGATTCTCCAATTCTCCTTCTCAGAACATCTTCAG
 AAAGTGAACATGAAACATGAGAGAAGCAGAAGGAGAACATAAGAGGAGCCAAAGTTAACGTTCTAAAAGA
 GGCAGAGGAAGCAAGCAGTCAGAAGAGCCAAGGAATAAACATGCAATGAACCCAAAGGTCACTCTGAGAGGA
 GTGATACCAATGAAAAAGGTCAAGTGTGATTCCAGTGCTAAAAGGGAAAACCTGTTGCTGCCAGAAGAGATT
 CTCCAGTGCCTGAGAACCGATTTTACTGAGAAGAGATATGCCGTGTTACTGAGAACCTGAACCGAAGAGATT
 CTGATGTTGCACCCATTGTAAGTGATCAGAAACCATCTGTATCAAAGTCTGGACGGAAGATTAAAGGAAGGGCA
 CAATTGCTATCACACACCTCAAGATCAAGATCCTGTGAGTCAGATGATGACAGCAGTGAACACTCCTC
 CTCACTGGAAAGAGGAATGCAGAGATTAAGAGCATATAGACCACCTAGTGGAGAAAATGGAGTAAAGGAGATA
 AGTTAAGTGACCCCTGTTCAAGCCGATGGGATGAAAGAAGCTGCTCAGAGATCCAGATCATGGCCTATAATG
 GATATTATTGACCTTAGTACAGCAAGACACTCTGGCCACCATAAAAAGCAGAAAAGAAAAAGGTTAAC
 ATAAAAAGAAAGGAAAAGCAGAAACACTGCAGAACACAAACAAAGAAGAGAAGGATTCTTACCGT
 CTGACATAGAATCTCAAAATCTTCACTCGAAGAATGAAATCCTCTGTGATAGAGAAAGGAGTTCTCGTTCT
 CCTCATTGTCATCTCATCACTCATCAAAGAGAGACTGGCTAAATCTGATAAGGATGTCAGAGCTCTTAAACCC
 ATTCCAGCAGAGACTCATACAGATCAAATCTCACTCACAGTCTTCTAGAGGAAGCTCAAGATCAAGGACTG
 CGTCAAAGTCCTCATCACATTCTCGAAGTAGATCAAAGTCCAGATCTAGTTCAAGTCTGGCACCAGAAGAGAG
 CATCAAACACCAAGAAAACAGCTTCAGTTAGTGAACAAACAGTTAACAGCTAAACAGAACCTTAAGAGCAA
 CCATGGCACAAAATGAAAATGAGTAGTACAACCAAGCTGAGAACCTGGAAGCCCTTATGAGCGAATTCAAGGAAAG
 GTCCCCCCCCCTCAAGATGGAAGCCTGGACAGAAACCTGGAAGCCCTTATGAGCGAATTCAAGGAAATGAAAG
 CTAAAACACCAATTGCTACCCATCCAAAGCAGTACAGTTAGCAAAATATTAAAGAGACTGGTAGCTCATCAT
 CCTACCATAAAAGAGAAAAAATTGAAAGTGTGATCAGAGCACTTATTCAAACATAGTGTAGAAGTTCAGAAA
 GCTCACCAAGGTCAAGGAGCAGATCTCTAGGAGTAGATCTTATTCCAGATCATACAGTCAAGTCAAGGACTG
 CTAGTTCACATTCAAGGTCTAGGTCTCCATCATCTAGATCTCATTCAAGAACATAACAGTGTGATCATTCAAGT
 GTAGTAGATCATCTCATATACTCTATTAGCAGTGTGATGAGGAGCTAAGAGGAGACTTAGATCCAGTG
 GGAAAAAAATAGCGTTCACATAAAAGCATAGCAGCTGAAAAGACACTCACAGTAAATATGTCAAAG
 GTAGAGACAGGTCTCATGTGTGAGAAAGTATAGCGAGAGCAGATCTTAGATTATTCTCAGACAGTG
 AGTCAAAGTGTCAAGGCCACACAGTCAGGCCAGGAAAAGAGAAGCAGGCCAAATGGAAAGAACACATAATAAAC
 AAGAAAAAAACAGAGGTGAAGAAAATCCAAGTCTGAACGGGAATGCCCTCATTCAAACAAAGAACACTTGTAAAG
 AGAATCTTCTGATCACCTTAGAAATGGCAGTAAGCCAAAAGGAAGAATTATGCTGGTAGTAAATGGGACTCTG
 AGTCAAATTCAAGACGAGATGTCACTAAAACAGTAAAATGACTCCCATCCATCTGACAAGGAAGAAGGTG
 AGGCCACATCCGATTGAAATCAGAGGTTAGTGAACATTGACATCAAAGTCAAACCCACAACCAAGTCGCCACAA
 ATACTCAGTGCCTGATGATAATGGTCTGGAAATCAAGCAAACAGCGCACATCAACCTCTGACTCTGAGGGGT
 CCTGTTCCAATTGAAACAAATAGGGAAAGCCACAAAGCACAAACATGGGTCAAAGGAAATCTAAAAGAG
 AACACACCAAAAAGTGAAGAGAAATTGAAAGGGAAAAAGACAAAAAGCATAAGGCTCCAAACAGAACAG
 CATTCACTGGCAGCCTCCACTAGAATTGGTGAAGAGGAGGAGGAGGAGATTGATGACAAGCAAGTTACTCAGG
 AATCAAAGAGAAAAAGTTCTGAAAACAATGAAACCATAAAAGATAATATTCTAAAACAGTGAAGAAATCCAGTG
 AAGAGGACCTTCAGGTAAACATGATACTGACTGTTCATCAGATCTGATCAGTTACTAAAGATGATAGTA
 AACTCAGTATTCTCCCACAGCTTAAATACTGAGGAAAATGTGGCCTGTTACAAAACATTCAAGCACGTTGAAG
 AAAGTGTCCCAATTGGAGTGGAAAGATGTGCTCAAACAGATGACAACATGGAGATCTGCACTCCTGATAGGAGTT

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FIGURE 495B

CCCCAGCAAAAGTAGAGGAGACTTCCCCTCTAGGAAATGCACGGCTTGATAACCCAGATATAAACATTGTTTGA
 AGCAGGATATGGCAACCGAACATCCTCAAGCAGAGGTAGTAAAACAGGAAAGCAGCATGTCCGAAAGTAAAGTGT
 TGGGTGAAGTGGGAAACAGGACAGCAGCTCTGCTAGCTGGTAGTGCTGGAGAAAGTACCGGAAGAAGGAGG
 TGGCTGAGAAGAGCCAGATCAACCTCATTGATAAGAAATGGAAGGCCCTGCAAGGTGTGGGAACCTGGCAGCAC
 CTAATGCTGCCACATCCAGTGTGGAGTTAAGGTGTTGACCCTGTGCCTGAAATGAAACCACAAGGCTTGA
 GAATAGAAATTAAAAGCAAAATAAAGTCGGCTGGTCTCTCTTGATGAAAGTAAGAAAGACAGCACGCTTAA
 ACCGTAGACCAAGAAATCAGGAGAGTTCAAGTGATGAGCAGACGCCTAGTCGGGATGATGATAGCCAGTCCAGGA
 GTCCAAGTAGATCTCGAAGTAAATCTGAAACCAATCAAGACACAGAACAGGCTGTCTCTATAGTCACTCAA
 GAAGTCGATCGAGAAGTCCACATCATCTTATCGATCAAGAAGCTACTCTAGAAGTCGGAGCAGAGGATGGTACA
 GCAGAGGCCGAACCAAGCCGGAGCAGTTCTACCGGAGTTACAAAGTCACAGGACGTCCAGCAGGAGCAGAT
 CCAGGAGCAGCTCATATGATCCCACAGTCGATCCAGGTCTACACCTACGATAGCTACTATAGCAGGAGTCGGA
 GTCGAAGTAGAAGCCAGAGAAGTACAGTTACCAACGGCAGAAGTTATAATCCGGTCCAGGAGTTGAGAT
 CTTATGGCTCTGACAGTGAAAGTACAGTTACTCTCATCCGGAGCCCTAGTGAGAGCAGCAGATACAGTT
GAAAACGTCGGATACAAATTATATCTTATTTGTAATATCTGGCAACTTAGCTTAAGAAATGTAATGACAGTCT
 GTTGTCTATTCAATATCAGAGGTGAAATTCAAAATAGACACTTCTTAATTGTTACTGGTCATTACATGTC
 GGGAGAAGAATTAAAATACAGATATGCTCTAAAAATATTTATGCCACATTACAGTAGCCAACATATGGA
 AATGAATTTCATTTCTTGAATCAAGAAATCGTGAAATTATCTATGTATAATTGCAATATTATTTAAGTCTA
 TTCACTCTATCTACGTATCCCTAGAATACAGATTCTTTGCTGTTTCCAGTTAGCATATATGCTGC
 CAAGCATAGAACTGTGAAGGAGAACTGTTAAAGGCCAAATATTATATACTGATTACATAGAGTCCTGTACA
 TATGTGCTCTAAAACAAACCCAGAAATTGATACTGTTGTAACCAGGAGTATAAGGCACTGGCTCTGGGTT
 CTTAATTCTATTCTAACTTCTTGATACCTCACAGGATTAGGAAAGTGGCATCATACATCCCACACAGTCTGTA
 TTACTTCAGGTTGTGGCAAGGTTAGGAAGAATCAATCAGCTTAACCTATAAAACCTGCACTGTCTGAGGA
 CTTACTATTATGTTCTTTAATCAATACCGATCAGAAGTTAGGTTATAAAACAAATTCTACTTCATGCTTT
 GGTGCTGGTAATTGGTGCCTTAAAGCATTACTCTTATATATCATATATTAAACCCATAAAATGAAA
 TTCAGACAAATCACTGGCACCAAAATGGTTATTCTGAGCTGTCTCACTTGACTATTGGGGGCTCTCT
 CAAGTACAGATGTGGTTGGGCTCCCTGGAGCAGGCAAGGATTGGCAGTAAGAGATATTGCCACTCAAGTCTAC
 TGTGTGTGTGCTGGAAAGAGTGAAGAATGGACTTCAAAAGTAACATCAAAATCTAACTGCCACCATCCTG
 GAGACATTGCAAGGGCTTCTCAAGTCTTCAAGTACAGGATATTACCAACAGCAGCTGAACITGGTA
 ACCAGCATGTTTCTATTCCACTGTGACCTGCAGCTGACTCAAAGCCTTGCCTGACCTGACCCAGGTGCAAG
 AGACAGGGGAAGAGGGATAGAGGGTATAGCATAAAATTACATATTTCATGGCTTGGGTGGTTCTCCAAAATA
 ATTGGACCTGAAAAACTAGT
 TTTGAATTGTTCCCAAGTGTACTTAATCACCTTAGTGCCAGTTAATCCAGTTATGCAGAAGAAATTCAATT
 GGTTGCCATGTAGAGCTCAGCACCCCTACCAACAGGCTTGTCTGGTAGTTGGAAAGTGGAAAGAGGCC
 TCAGTTGGAGGGAGCTGACAACCCCTGGTGGAGGGAGGGTGCCTGAAATGTATTAAACTATCACCCAAAGAAG
 GTATGAAAACAGGGTAAGGTGGTCAGTTGTTGCCAGGTCAATAGACAGAAAGTACATTAGAAAACAGGACTTAG
 GCCAAACAAACAATCTGGAACTGAATACAAACAGTATGATTATTAAGGTTCAAAGGTTGCCCTGCAA
 AGGAGAATATTACTACTAGTCAGCAGGAAAAAAATGCATTCAAGAACCCAAAGCAGAAACTGCCAAATGTAATTAGG
 TTAAGAAAAGTTACCTTGGGAGCTGTATTAGTTCTATTGCTGTGTGACAAATTACCCAAATTAGCAGTT
 AAAAACAAATACCCATAGCAGTTCTGTAGCTCATGAGTCTGGCACAGTGTGGCTGGATTCTGCTCAGGGCTT
 AAAGGCTGAAATAAGGGTTGGCAGGACAAACATTCTCATGGAGGCTCTGGGAAGAATCTGCTCTAAGTTCA
 TCAGGTTGGCGGAATTCAAGTTCTGCTGGCTCTCAGCTGGAGGCCCTCTCACCTCAAGGCTGCCCTGCA
 TTCTCTTATGTGGTCCCTCCAGCTTCAAAACAGCCTTCTGCTCTTCTCATGCTTCAATCTCTCCCGT
 CCTCCTGTTAGGGCATATGAGCTCAAGCCCACAGATATTTAAGGTTGATTGTGGCATAGAACATAA
 TTGCAAGGAGTACTGTCTCATCTCATATTACAGGGTTCTGGAGATTAGCTCATGAAAGTGGAGGGCATT
 TCAAATTCTGCCTACCACAGGCAATAACTGCCATCTCAGCTGTAGGTGGAAATTTCACCCAGAAAAGATAGGCC
 CTAGAAGCCTCATTCTTCTCCATGGAAAAGGACAGCCCTCTGCTGCAGCGTTCAACTTGTTGTTACTGAC
 AGAGTGAACATCAGAAATAGCTTCTCCTAAAGGGATTGTTCTACATTGAAAGTTATTGAAATTAAATAAAATT
 GAATTATGTTGT

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FIGURE 496

MGAQDRPQCHFDIEINREPVGrimFQLFSDICPKTCKNFLCLCSGEKGLGTTGKKLCYKGSTFHRRVKNFMIQG
GDFSEGMNGKGGESIYGGYFKDENFILKHDRFLLSMANRGKHTNGSQFFITTKPAPHLGVHVFGLVISGFEVI
EQIENLKTDAASRPYADVRVIDCGVLATKSIKDVFEKKRKPTHSEGDSSSNSSSESSELEHERSRRRK
HKRRPKVKRSKKRKEASSSEEPRNKHAMNPKGHSERSDTNEKRSVDSSAKREKPVVRPEEIPPVPENRFLLRRD
MPVVTAEPEPKIPDVAPIVSQDKPSVSKSGRKIKGRGTIRYHTPPRSRSCSESDDDSSETPPHKEEMQRLRAY
RPPSGEKWSKGDKLSDPCSSRWDERSLSQRSRSWSYNGYYSDLSTARHSGHHKRRKEKKVHKKKGKKQKHCR
HKQTKKRRLIPSDIESKSSTRMKSSCDRERSSRSSSLSHHSSKRDWSKSDKDVQSSLTHSSRDSYRSKSHS
QSYSRGSSRSRTASKSSHSRSRSKSRSQQSKSGHRKRASKSPRKTASQLSENKPVKTEPLRATMAQNENVVQPV
VAENIPVIPLSDSPPPSRWPQGQKPWPSYERIQEMKAKTTHLLPIQSTYSLANIKETGSSSYHKREKNSESDQ
STYSKYSDRSSSESSPRSRSRSSRSRSYTRSRSLASSHSRSRSPSSRSHSRNKYSDHSQCSRSSSYTSISSD
DGRRAKRRLRSGKKNSVSHKKHSSSEKTLHSKYVKGRDRSSCVRKYSESRSRSLDYSSDSEQSSVQATQSAQEK
EKQGQMERTHNKQEKNRGEekskserecpHSKKRKLKENLSDHLRNGSKPKRNyAGSKWDSESNERDVTKNSK
NDSHPSSDKEEGEATSDSESEVSEIHIKVPTTSTSNTSLPDDNGAWKSSQRTSTDSEGCSNSENNRGKPQ
KHKHGSKENLKREHTKKVKEKLKGKKDKHHKAPKRKQAFHWQPPLEFGEEEEEEIDDKQVTQESKEKKVSENNET
IKDNILKTEKSSEEDLSGKHDTVTVSSLDQFTKDDSKLISPTALNTEENVACLQNIQHVEESVPNGVEDVLQT
DDNMEICTPDRSSPAKVEETSPGNARLDTPDINIVLKQDMATEHPQAEVVKQESSMSESKVLGEVGKQDSSAS
LASAGESTGKKEVAEKSQINLIDKKWKPLQGVGNLAAPNAATSSAVEVKVLTVPEMKPQGLRIEIKSKNKVRPG
SLFDEVRKATARLNRRPRNQESSDEQTPSRDDDSQSRSPSRSKSETKSRRHRTSVSYSHRSRSRSSTSSYRS
RSYSRSRSRGWYSRGRTSRSSSYRSYKSHRTSSRSRSRSSYDPHSRSRSYTYDSYYSRSRSRSRSQRSDSYHR
GRSYNRSSRSCRSYGSDESRSYSHHRSPSESSRYS

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FIGURE 497A

CGGCAGGGTTGGAAAATGATGGAAGAGGCCGGAGGTGGAGGCCACCGAGTGCTGAGAGGAACCTGCGGAATCGGCC
GAGATGGGTCTGGCGCGCTTCCCTCGGGACCCCTCGTGTCCGGTGGTGTGCTGTTGCTGGCCTGGTGGC
 CCAGTCCTCGGTGCGCGCCAGGCTTCACACAGACCTCACATCTTCTTATGAAATTATAACTCCTTGG
 AGATTAACTAGAGAAAGAAGAGAACCCCTAGGCCATTCAAAACAAGTATCTTATGTTATTCAAGGCTGAAGGA
 AAAGAGCATATTATTCACTTGGAAAGGAACAAAGACCTTTGCTGAAGATTTGGGTTATACTTACAACAAG
 GAAGGGACTTTAATCACTGACCACCCAAATACAGAACATCATTGTCAATTATCGGGCTATGTGGAGGGAGTCAT
 AATTCACTCCATTGCTTCTAGCGACTGTGGACTCAGAGGATTGCTGCATTAGAGAACGAGTTATGGGATT
 GAACCCCTGCAGAACAGCTCTCATTTGAGCACATCATTATGAAATGGATGATGTCTACAAAGAGCCTCTGAAA
 TGTGGAGTTCCAACAAGGATATAGAGAAAGAAACTGCAAAGGATGAAGAGGAAGGCCCTCCAGCATGACTCAG
 CTACTTCGAAGAAGAGCTGTCTGCCACAGACCCGGTATGTGGAGCTGTCATTGTCGTAGACAAGGAAAGG
 TATGACATGATGGGAAGAAATCAGACTGCTGTGAGAGAACGAGATGATTCTCCTGGCAAACACTTGGATAGTATG
 TATATTATGTTAAATATTCAATTGTGCTAGTTGGACTGGAGATTGGACCAATGAAACCTGATCAACATAGTT
 GGGGGTGTGGTGTGCTGGGAACCTCGTGCAGTGGCGGGAAAAGTTCTTATCACACGTCGGAGACATGAC
 ACTGCACAGCTAGTTCTAAAGAAAGGTTGGACTGCAGGAATGGCATTGTGGGAAACAGTGTGTTCAAGG
 AGCCACGCAGCGGGATTAATGTGTTGGACAAATCACTGTGGAGACATTGCTCCATTGTCATGAATTG
 GGTCTATAATCTTGGAAATGAATCACGATGATGGGAGAGATTGTCCTGTCAGGAAAGAGCTGCATCATGAATTCA
 GGAGCATCGGGTTCCAGAAACTTAGCAGTTGCAGTGCAGAGGACTTGAGAGAACGTTAACCTAAATAAGGAGGA
 AACCTGCCCTTAATATTCAAAGCCTGATGAACCTATAGTGTCCCTCTGGTAATAAGTTGGTGGACGCT
 GGGGAAGAGTGTGACTGTGGTACTCCAAAGGAATGTGAATTGGACCCCTGCTGCCAAGGAAGTACCTGTAAGCTT
 AAATCATTGCTGAGTGTGCATATGGTACTGTTGAAAGACTGTCGGTTCCAGGAGGTACTTTATGCCGA
 GGAAAAACCACTGAGTGTGATGTTCCAGAGTACTGCAATGGTCTTCAGTTCTGTCAGCCAGATGTTTATT
 CAGAAATGGATATCTTGGCCAGAATAACAAAGCCTATTGCTACAACGGCATGTGCCAGTATTATGATGCTCAATG
 CAAGTCATCTTGGCTCAAAGCAAGGCTGCCAAAGATTGTTCTTCAAGTGAATTCTAAAGGTGACAGA
 TTGGCAATTGTGGTTCTGGCAATGAATAACAAGAAGTGTGCCACTGGGAATGCTTGTGGAAAGCTTCAG
 TGTGAGAATGTACAAGAGAACCTGTATTGGAAATTGTCCTGCTATTATTCAAACGCTAGTCGAGGGCACCAAA
 TGTTGGGGTGTGGATTCCAGCTAGGATCAGATGTTCCAGATCCTGGATGGTAAACGAAGGCACAAAGTGGT
 GCTGGAAAGATCTGTAGAAACTCCAGTGTGAGATGCTCTGTTGAAATTATGACTGTGATGTTCAAGAAAAG
 TGTCTGACATGGGTATGTAATAGCAATAAGAATTGTCAGTGTGAAATGGCTGGCTCCCCAAATTGTGAG
 ACTAAAGGATACTGGAGGAAGTGTGGACAGTGGACTACATACAATGAAATGAAACTGCTTGGGACGGACTT
 CTGGTCTCTTCTTCAATTGTCCTCTTATTGTCCTGCTATTGTTATCTCATCAAGAGGGATCAACTGTGG
 AGAAGCTACTTCAGAAAGAAGAGATCACAAACATATGAGTCAGATGGAAAAATCAAGCAACCCCTCTAGACAG
 CGGGGGAGTGTCTCGACATGTTCTCCAGTGCACACCTCCAGAGAACGTTCTATATGCAAACAGATTGCA
 GTACCAACCTATGCAGCCAAGCAACCTCAGCAGTCCCCTCAAGGCCACCTCCACCAACCGAAAGTATCATCT
 CAGGGAAACTTAATTCTGCCGTCTGCTCTGCACCTCTTATATAGTTCCTCACT**TGAT**TTTTAACCT
 TCTTTTGCAAATGTCCTCAGGGAACTGAGCTAATACTTTTTCTGATGTTCTGAAAAGCCTTCT
 GTTGCAACTATGAAATGAAACAAACACCACAAACAGACTCACTAACACAGAAAACAGAAACTGAGTGTGAG
 AGTTGTGAAATACAAGGAAATGCAGTAAAGCCAGGAATTACAATAACATTCCGTTCCATATTGAATAAGT
 CTTATTCACTGTCAGGTTAATGCACTAATCATGGATTGGTAAACATGTTATTGTCAGTGTGATTCTCAAATT
 AACGTATTGGTGTAAAGATTTGTCATTAAGTGTAAAGTGTATTCTGAAATTCTACCTTAGTTATCATTAA
 TGTAGTTCCTCATTAACATGTGATAATCTAACACCTGTGAAAGACTGACTAATCAGCTGCCAATAATCTAATA
 TTTTCATCATGCACTAATGCAATTAAATCATCATACTCTAGAAATCTGTCAGTCACTACATGAAATAAGCAAAT
 ATTGTCTCAAAAGAATGCACAAGAACCAATTAAAGATGTCATATTATTTGAAAGTACAAATATAACTAAAAG
 AGTGTGTGTATTCAACGCACTCGCTTCCATTGACCTTCAACTATAGGTAAATAACTCTTAGAGAA
 ATTAATTAAATATTAGAATTCTTATTGAAATCATGTGAAAGCAGTGCACATTGTCACAATAGCACTATTAA
 TAAATTATAAGCTTAAGGTACGAAAGTATTAAATAGATCTAATCAAATATGTTGATTGTCAGGCTATAAAAGCA
 GGAGCAATTATAAAATCTCAATCAATTGAACTTTACAAACCACTTGAGAATTGTCAGGACTTTAAAATCT
 GAACCTTCAAAGCTGCTATTAAATCATTAGAAATGTTACATTACTAAGGTGTGCTGGTCATGAAATATT
 AGACACTAATATTTCATAGAAATTAGGCTGGAGAAGAAGGAAGAAATGGTTCTTAAATACCTACAAAAAAG

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FIGURE 497B

TTACTGTGGTATCTATGAGTTATCATCTTAGCTGTGTTAAAAATGAATTTCATATGGCAGATATGGTATGGAT
CGTAAAATTTAACGCACTAAAAATTTCATAACCTTCATAATAAAGTTAATAATAGGTTATTAACTGAAT
TTCATTAGTTTTAAAAGTGTGTTGTATATACATATAACAAATACAACATTACAATAAAATAAAAA
TACTTGAAATTCTCAAAAAAAAAAAAAAA

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FIGURE 498

MGSGARFPSGTLRVRWLLLLGLVGPVLGAARPQFQQTSHLSSYEIITPWRLTRERREAPRYSKQVSYVIQAEGK
EHHHLERNKDLLPEDFVVYTNYKEGTLITDHPNIQNHCYRGYVEGVHNSSIALSDCFGRLGLLHLENASYGIE
PLQNSSHFEHIYRMDDVYKEPLKGVSNKDIEKETAKDEEEPPSMTQLLRRRAVLPQTRYVELFIVVDKERY
DMMGRNQTAVEREEMILLANYLDSMYIMLNIRIVLVGLEIWTNGNLINIVGGAGDVLGNFVQWREKFLITRRRHDS
AQLVLKKGFGGTAGMAFVGTVCSRSHAGGINVFGQITVETFASIVAHELGHNLGMNHDDGRDCSCGAKSCIMNSG
ASGSRNFSSCSAEDFEKLTLNKGNNCLNIPKPDEAYSAPSCGNKLVDAGEECDCGTPKECELDPCCEGSTCKLK
SFAECAYGDCCDKDRFLPGGTLCRGKTSECDVPEYCNGSSQFCQPDVFIQNGYPQCQNNKAYCYNGMCQYYDAQCQ
VIFGSKAKAAPKDCFIEVNSKGDRFGNCGFSGNEYKKCATGNALCGKLQENVQEIPVFGIVPAIIQTPSRGTKC
WGVDFQLGSDVPDPGMVNEGTKCGAGKICRNFQCVDASVNYDCDVQKKCHGHGVCSNKNCENGWAPPNCET
KGYGGSVDSGPTYNEMNTALRDGLLVFFFLIVPLIVCAIFIFIKRDQLWRSYFRKKRSQTYESDGKNQANPSRQP
GSVPRHVSPVTPPPRevPIYANRFAVPTYAAKQPQQFPSRPPPQPKVSSQGNLIPARPAPAPPLYSSLT

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FIGURE 499

CGTCCGTGACAAGATGAAGCTCATCATCCTGGAGCACTATTCTCAGGCAGCGAGTGGCGGCTAAATACATCAG
GAACCGTATCATCCAGTTAACCCAGGGCCAGAGAAGTACTTCACCCCTGGGCTCCCCTGGGAGTACCCACT
TGGCTGCTACAAGAAGCTGATTGAATACTATAAGAATGGGACCTGTCCTTAAATATGTGAAGACCTCAACAT
GGATGAGTACGTGGCCTCCTCGAGACCACCCGGAGAGTTACCACTCCTCATGTGGAACAACTTCTCAAGCA
CATTGACATCCACCCAGAAAACACCCACATTCTGGATGGGAATGCAGTCACAGGAGAATGTGATGCCTT
TGAAGAGAAGATCAAGGCTGCAGGTGGGATCGAGCTATTGTTGGAGGCATGGCCCTGATGGACACATTGCCTT
CAACGAGCCAGGCTCCAGTCTGGTGTCCAGGACCCGTGTGAAGACGCTGCCATGGATACCATCCTGCCAATGC
TAGGTTCTCGATGGAGAACTCACCAAGGTGCCACCATGGCCTTGACGGTGGGGTGGCACTGTATGGATGC
TAGAGAGGTGATGATCCTTATCACAGGTGCTACAAGGCATTGCTCTGTACAAGGCCATCGAGGAGGGAGTGAA
CCACATGTGGACCGTGTCTGCCCTCCAGCAGCATCCCCGACCGTGTGTGACGAGGATGCCACCTTGG
GCTGAAAGTGAAGACTGTCAAGTATTCAAAGGTTAACAGGTTAACAGTGGTGGACCCCTGTACAG
TATCAAAGAGAAAGAAACTGAGAAAAGCAATCTCGAAGAAACCATAACAGCGATTAGCCTGTGCTGGGACCTAG
TGTCAAGTACCCATAGGGAAAGGCAGGTCTTCTGAAATTGTCTTAAAGAAAGAATTGTATTCTTAATCT
AGTATGGTTACTCCAGATAAGTGGGTGAACTTATTGTTCTGCCATGAGGCTGGGAGCCTAGTCACGGAGTTA
GCTATAGGGAGAATGTTGTAACCTAACAGAAAAAAATCTGCAAAATGTACTCCATCTTGAATGTCTGC
CAAACCCAGGTTGGAGTTAACCTTTGTTCTGCCATGCCATGGTTCACACATATGACACACTCCCCTCAG
GAATTCTCTCCTTACACGCACTGATTCAAGTGGGAGGGATTAGGGCTTATGTATATTGGATACCACCTCT
TGAGAGTCCTCTTGACAGGCCTGCCCTGGTGAGAACATTGTTCCAAGTGAAGGCACAAACTCTCAATAT
CTAAAATAAGTGCAGGAAGCAGTCTTGGTCAGTAACAAGTGAATGGAAAGAAAACGATCCCTCCTTCTT
CCACTTCACAGCTTCTGAACTAGGAGAACCTGGGGTGGATTGGGTGGGGCAAAGAGGAGGCTT
CTATTGATAAAATCCAGAGCCTCAAGGGCCCAGCCACGTCAAACCTCTCCCTCAGGGACTCTCAGCACCAA
AGGCAGAAGGTGGAAGCCGTTTCCCCAGAGCCCTGTGTTGTGAAAGGCCACTGTGGCTCCCTGTT
TACATACTCATTAGTAAGTGGGAGGTCCACTGGGCAACAGACACTGCCACAATTTCAGTGTGTTGTCAGCCAA
GGGGACGGTCTGGACAGGCAGCTTAAGTGTGAGTTAGTCACAACCTCTGAGTGTCCGCTCCTGCTTACCTA
GGAGGTGAGTGCAGGAAAATACACCAAATGCTCTAGTATTGTTCCCCACTAAAATAGCCTGCTTAAATT
ACATGGTGTGGTCTGATGTTCTGAGAGCATCAGGAAATACAACCCCTTGCCCATTACCCCTCCTCCGGATCC
CAAGGTGGTCTGTTGCTCTGGCTTCAATTGCTTACGGCCTCATGGAGTGGATGCTGCCCTCTGGCTG
TTTTGTCCTGTTGAAGCTACTGCTGCCCTCAATTCTGGAAAGACCTTGAGAGCCTAGCCCAGGCCCTAAGG
GCTATGTTGGTACCAAGTGTGTTAGCTTCTATGTGATTGTGCCGTATTCTGTTAACGCTCATGGA
TCAATGGATTGTTACAATGTGATATTCTATTAAATCCAGTATTCAAAAAAAAAAAAAAA

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FIGURE 500

MKLIILEHYSQASEWAAKYIRNRIIQFNPGPPEKYFTLGLPTGSTPLGCYKKLIEYYKNGDLSFKYVKTBNMDEYV
GLPRDHPESYHSFMWNNFFKHIDIHENTHILDGNAVDLQAECDAFEEKIKAAGGIELFVGIGPDGHIAFNEPG
SSLVSRTVKTILAMDТИANARFFDGELETKVPTMALTVGVGTVMAREVMILITGAHKAFALYKAIEEGVNHMWT
VSAFQQHPRTVFVCDEDATLELKVKTVKYFKGLMLVHNKLVDPLYSIKEKETEKSQSSKKPYSD

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FIGURE 501

AAAACAGCCGGGCTCCAGCGGGAGAACGATAATGCAAAGTGCTATGTTCTGGCTGTCACACGACTGCAGAC
CCATGGACAAGAGCGCAGGCAGTGGCCACAAGAGCGAGGAGAAGCGAGAAAAGATGAAACGGACCCTTTAAAAG
ATTGGAAGACCCGTTGAGCTACTTCTACAAAATTCTACTCCTGGAGGCCAAAACGGCAAAAAAGCA
AACAGCAAGCTTCATCAAGCCTCTCCTGAGGAAGCACAGCTGTGGTCAGAAGCATTGACGAGCTGCTAGCCA
GCAAATATGGCTTGCTGCATTCAAGGCTTTAAAGTCGGAATTCTGTGAAGAAAATATTGAATTCTGGCTGG
CCTGTGAAGACTCAAAAAACCAAATCACCCAAAAGCTGCTCTAAAGCAAGGAAAATATATACTGACTTCA
TAGAAAAGGAAGCTCCAAAAGAGATAAACATAGATTTCAAACCAAAACTCTGATTGCCAGAATATAACAAGAAG
CTACAAGTGGCTGTTACAAC TGCCCAGAAAAGGGTATACAGCTTGATGGAGAACAACTCTTATCCTCGTTCT
TGGAGTCAGAATTCTACCAGGACTTGTTGTAAGGACATTTCATTCTTCTGAGGGAGGGACTGTGACCTGCCATAAAAGACTGAC
CTTGAATTCAAGCCTGGGTGTTCAAGGAAACATCACTCAGAACTATTGATTCAAAGTTGGTAGTGAATCAGGAAGC
CAGTAAC TGACTAGGAGAAGCTGGTATCAGAACAGCTCCCTCACTGTGTACAGAACGCAAGAAGGGATAGGTG
GTCTGAACGTGGTGTCTCACTCTGAAAAGCAGGAATGTAAGATGATGAAAGAGACAATGTAATACTGTTGGTCCA
AAAGCATTAAAATCAATAGATCTGGATTATGTCAGGCTTAGGTAGCTGGTTGACATCTTCCCTAAATCGATC
CATGTTACACATAGTAGTTAGTTAGGATTCACTAACAGTGAAGTGTACTATGTGCAAGGGTATTGAAGT
TCTTATGACCACAGATCATCAGTACTGTTGTCTCATGTAATGCTAAACTGAAATGGTCCGTGTTGCATTGTTA
AAAATGATGTGTGAAATAGAATGAGTGCTATGGTGTGAAACTGCAGTGCCGTTATGAGTGCCAAAATCTGT
CTTGAAGGCAGCTACACTTGAAGTGGCTTGAATACTTTAATAAAATTATTTGATAAATAATATTG

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FIGURE 502

MQSAMFLAVQHDCRPMDSAGSGHKSEEKREKMKRTLLKDWKTRLSYFLQNSSTPGKPKTGKKSKQQAFIKPSPE
EAQLWSEAFDELLASKYGLAFAFLKSEFCEENIEFWLACEDFKKTSPQKLSSKARKIYTDFIEKEAPKEINI
DFQTKTTLIAQNIQEATSGCFTTAQKRVYSLMENNNSYPRFLESEFYQDLCKKPQITTEPHAT

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FIGURE 503

CAGACGGCGCTGAGCGCGGCGGGCGGGAGCGGGCGTCGAGTGTCCGTGCGCCCGTCTGTGGCCAAGCAGCCA
GCAGCCTAGCAGCCAGTCAGCTGCCGCCGGCGGCCAAGCAGCCAACCATGCTCAACTTCGGTGCCTCTCCAG
CAGACTGCGGAGGAAGAAATGGAATGATTCTGAAAGGCCAAAAGAGAGTATGTATTCTGGAACAAACTGCA
GAGAAAAGTGATTGAGCTGTAGAACACTATGCAATGAGCTGAGCTGGAAAGTCTGATTAAAGAAATAC
GTTGAAAACAGACCTGTTACACAGTATCTGATTGTCAGAGGAAGAGAATCTGCTCCGGAACACCTGATT
CATACAATCCCAGCATTTGTTGACTCCACCTTACAGTCCTCTGACTTGAACCCCTCTCAAGTGTCAAATCTG
ATGGCACCCAGCGCCATCTACTGTACACTCAAGTCACTCTCAGATACTGCCAAACCTCACATTGCCGCACCTTC
AAAGAGGAAGAAAGAGCCAGTATCTGCCCCCAAACCTCCCCAAAGCTCAGGCAACAAGTGTGATTGTCATACA
GCTGATGCCAGCTATGTAACCACCAAGACCTGCCAATGAAAGCAGCCAGCATCCTCAACTATCAGAACAAATTCT
TTTAGAAGAAGAACCCACCTAAATGTTGAGGCTGCAAGAAAGAACATACCATGTCGCCGCTGTGTCACCAAACAGA
TCCAAATGTGAGAGAACACAGTGGCAGATGTTGATGAGAACAGCAAGTGCTGACTTATGACTTTCTGTGCCT
TCCTCAGAGACGGTCATCTGAGGTCTCAGCCAGCCCCCTGTGCCCCACAACAGAACAGTCAGTGTGGTCTCTCCA
CCTGCAGTATCTGAGGGGGAGTGCACCTATGCCGTACATGCCAGATGGTCCCCCTCTGCCAACAAACCC
GTTGTGACAACAGTCGTTCCAGCACTCCTCCAGCCAGCCACCAGCCGTTGCCGCCCCCTGTTGTTGTCATGGC
ACACAAGTCCCCAAAGGCCTGTCATGTTGTTGACCTCCAGCCGTTGTCAGAGTCAAGCCTCCGGTGGT
AGCCCCGAATGGCACCAGACTCTCCCATTGCCCTGCTCTGGGTTTCCCCTCAGCAGCAAAGTCACCTCCT
CAGATTGATTGATCAAGGATAAGGAGTCACATCTGAGCCACCCAGGATGTCAGAACAGACATACTTTAAAGTTCC
CATCTGAAGGCCACACGAGGACGCACACAGGAGAACAGCTTCACTGTCAGCTGAGCTGGAAAGGTTGTAAGGAGG
TTGCCCGTTCTGATGAACTGTCAGACACAGGGAAACCCACAGGGTGAGAAGAAATTGCGTGCCCCATGTGT
GACCGCGGTTCATGAGGAGTGACCATTTGACCAAGCATGCCGGCGCCATCTATGCCAAGAACGCTACCAAAC
TGGCAGATGGAAGTGAGCAAGCTAAATGACATTGCTCTACCTCAACCCCTGCTCCACACAGTGACAGACCGGA
AAAGTGAAGAGTCAGAACTAACTTGGTCTCAGCGGGAGCCAGTGGTATGTAAGGTTGACTAA
TGGCCCCACAACGTGGGCTTAAAGCAGAACGCCCACAGCCTGGCACGAAGGCCGCTGGTTAGGTGACTAA
AGGGCTTCGGCCACAGGCAGGTACAGAAAAGGCAGGTTTCAATTCTTACACATAAGAGAGATGAGAACAGCTTT
ATTCTTGAATATTTGAAAGGTTCAAGTGGGTCAACACAGGTAGCACAGATTGAAATCTGTGTCATAT
TTGTTACTTACTTTGCTGTTTACATTGAGACCAACTTCAATGTGATTCTCAAAGCACTGGTTCAAGA
ATATGGAGGCTGGAAGGAAATAAACATTACGGTACAGACATGGAGATGTAAGGTTGATTATTACAAATA
TTGTCATCTTTCTAGAGTTATCTCTTATTATTCTTAGTCTTCCAGTCACATCGTGATGTAGATTAA
ATATATCTAGAACTATCATTTCACATTGTGAATATTGGAATTGACAGACTGTATATTGCTAACAGAGGGGCC
AAAGAATTGGAATCCTCTTAATTAAATTGCTTGAAGCATAGCTACAATTGTTGCACTTGTGTTGAA
GTTAACAAATGACTGTATCTAGGCATTCTATTGCTTGAACCTTGTGCTGCAGTTCTGTGAGATT
TGAAAATTGTATACCAATGTGTTCTGTAGACTCTAACAGATAACTGCACTTGTGTTGAA
GAAATATATATTGAAAGAAGGGATATTAGAATCTAGATAACTTCTGAAAAAGATGGCTATGTCATCAGTA
AAAGTACCTTATGTTAGGGATATAATTGTCCTTATTGAAATTGAGAACATTAGTGCACATTACAGGTGG
ACAAATGTTGCTGTTAACAGTATTCTCTTATTCTGTTATATTGAGTATACACAGTGGCAAAACAAAAGTA
TTCACCTTGTAAACAGTATTCTCTTATTCTGTTATATTGAGTATACACAGTGGCAAAACAAAAGTA
CATTGCTTAAATATATAGTGAAGGAAATGTCACATATCTCCATTAAACATTGTTTGTATATTGGGTGAGA
TTCTGACATCAAAACTGGACCCCTGGAAAACAAAGTTAATTAAAAAAATCCTGTGACTTACAATTG
ACAATATTCTTTGTTGACTTATATCTGTTACAATAAGAATT

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FIGURE 504

MLNFGASLQQTAEERMEMISERPKE^SMSW^NKTAEKSDFEAVEALMSM^CSWKSDFKYVENRPVTPVSDLSEEE
NLLPGTPDFHTIPAFCLTPYSPSDFEP^SQVS^NLMAPAPSTVHF^KSLSDTAKPHIAAPFKEEKSPVSAPKLPKA
QATSVIRHTADAQLCNHQTCPMKAASI^LNYQNNSFRRRTHLNVEAARKNIPCAAVSPNRSK^CERNTVADVDEKAS
AALYDFSVPSSETVICRSQPAPVSPQQKS^VLVS^PPAVSAGGVPPMPVICQMVP^LPANNPVTTVPSTPPSQPPA
VCPVVVF^MGTVQVPKGAVMFVVPQPVVQSSKPPVSPNGTRLSPIAPAPGFSPSAAKVTPQIDSSRIRSHICSHPG
CGKTYFKSSH^LKAHTRHTGEKPFSCSWKG^CERRFARSDELSRHRRHTGEKKFACPMCDRRFM^RSDH^LTKHARR
HLSAKKL^PNWQMEVSKLNDIALPPTPAPTQ

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FIGURE 505

GGGACAGCGGGCAGGGAAAGCCGCGGGAGGGTACTCCAGGCGAGAGGC GGAC GCGAGTC GCGTGG CAGG AAAA
GTGACTAGCTCCCCTCGTTGT CAGCCAGGGACGAGAACACAGCCACGCTCCCACCCGGCTGCCAACGATCCCTC
GGCGGCCATGT CGGCCGCCGGT GCGCCAGGCCTGC GGGCCACCTACCACCGGCTCTCGATAAAAGTGGAGCTGAT
GCTGCCCGAGAAATTGAGGCCGTTGTACAACCATCCAGCAGGTCCCAGAACAGTTTCTCTGGGCTCCAATTAT
GAAATGGGGGTGGTGTGCTGGATTGGCTGATATGCCAGACCTGCAGAAAAACTTAGCACAGCTCAATCTGC
TGTTTGATGGCTACAGGGTTATTGGTCAAGATACTCACTGTAATTATTCCAAAAAAATTGGAGTCTGTTGC
TGTTAATTCTTGTGGGGCAGCAGGAGCCTCAGCTTTCTGTTGGAGATATAACCAAGAAACTAAAAGC
TAAAGCACACAATAAAAAGAGTTCTGATCACCTGAACAATCTAGATGTGGACAAAACCATTGGACCTAGTTA
TTATTTGGTTATTGATAAAGCAAAGCTAACTGTGTTAGAAGGCAGTGTAACTGGTAGCTAGTTCTGATTCA
ATAGAAAAATGCAGCAAACCTTTAATAACAGTCTCTACATGACTTAAGGAACCTATCTATGGATATTAGTAAC
ATTTTCTACCATTGTCCTGAATAAACCATTTGCTCGTAAAAAAAAAAAAAA

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FIGURE 506

MSAAGARGLRATYHRLLDKVELMLPEKLRLPLYNHPAGPRTVFFWAPIMKWGLVCAGLADMARPAEKLSTAQSAVL
MATGFIWSRYSILVIIPKNWSLFAVNFFVGAAGASQLFRIWRYNQELKAKAHK

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FIGURE 507

ATGTGGGGCAGCTCTGGCTCCTCCGCCTGCCATGCCAATCCGGCACTGGGACAGAGGCTGAGTTGAGAAA
GCTGCAGAGGAGGTTAGGCACCTTAAGACCAAGCCATCGGATGAGGAGATGCTGTTCATCTATGCCACTACAAA
CAAGCAACTGTGGCGACATAAATACAGAACGGCCCAGGATGTTGGACTTCACGGCAAGGCCAAGTGGATGCC
TGGAATGAGCTGAAAGGGACTTCCAAGGAAGATGCCATGAAAGCTTACATCAACAAAGTAGAAGAGCTAAAGAAA
AAATACGGGATATGAAGACTGGATTGGTTACTGTGCCATGTGTTATCCTAAACTGAGACAATGCCTGTTT
TTTCTAATACCGTGGATGGTGGAAATTGGGAAATAACCAGTTAAACCAGCTACTCAAGGCTGCTCACCACG
GCTCTAACAGATTAGGGCTAAACGATTACTGACTTCTGAGTAGTTTATCTGAAATCAATTAAAGTGT
ATTGTTACTTT

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FIGURE 508

MWGDLWLPPASANPGTGTEAEFEKAAEVRLKTKPSDEEMLFIYGHYKQATVGDINTERPGMLDFTGKAKWDA
WNELKGTSKEDAMKAYINKVEELKKKYGI

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FIGURE 509A

ACTCTGGAGTGGGAGTGGGAGCGAGCGCTTCTGCGACTCCAGTTGTGAGAGCCGCAGGGCATGGGAATTGACGC
CACTCACCGACCCCCAGTCTCAATCTCAACGCTGTGAGGAAACCTCGACTTGCAGGTCCCCAAGGGCAGCGGG
GCTCGGCAGCGAGGCACCCCTCTCGTCCCCATCCAATCCAAGCGCTCTGCCACTGACGACGCCAAGAGACT
CGAGTGGGAGTTAACAGCTCCAGTGAGGGCAGCAGGTGTCCAGGCCGGCTGCGGTTCTGTTGACGTCTTG
CCTAGGCAAAGGTCAGTTCTCTCGAGCCGGCTGTCCCAGCCACTGGAAACCGCACCTCCCCCAGCATG

GGCACCCAGCCTCAGCCGAACGACCCTGGCCGCTAAACCCGCTGTCCATCCAGCAGACCACGCTCTGCTACTC
CTGTCGGTGTGGCCACTGTGATGTGGCCAGCGGCTGCTGAGGCAACGGAGGCAGCTCCGGTCCGCGCC
CCGGGCCGTTGCGTGGCCACTGATCGGAAACGCCGGCGGTGGCCAGGCCAGCTCACCTCTCGTCTCGC
CTGGCGCGCGCTACGGCAGCTTCCAGATCCGCTGGCAGCTGCCCATAGTGGTGTGAATGGCGAGCG
GCCATCACCAGGCCCTGGTCAGCAGGGCTCGCCCTCGCCGACCAGGCCCTCGCCTCCGTGTTG
TCCGGCGGCCGAGCATGGCTTCGGCCACTACTCGGAGCAGTGGAGGTGAGCGGGCGCAGCCCACAGCATG
ATGCGCAACTTCTCACGCCAGCCGCAGCCCAAGTCCTCGAGGGCCACGTGCTGAGCGAGGCCGCGAG
CTGGTGGCGCTGTTGCGCAGCGGGAGCGCGCCTTCGACCCGAGGCCGTGACCGTGTGGCGT
GCCAACGTATGAGTGCCTGTGTTGGCTGCCATAGCCACGACGACCCGAGTCCGTGAGCTGCTCAGC
ACAACGAAGAGTTCGGGCCACGGTGGCGGGAGCTGGTGGACGTGATGCCCTGGCTGCAGTACTCCCC
AACCCGGTGCACCGTTCCGCAATTGAGCAGCTAACCGCAACTTCAGCAACTTCATCTGGACAAGTTC
TTGAGGCACTGCGAAAGCCTCGGCCCCGGCCGACATGATGGACGCCCTTATCCTCTCGGAA
AAGAAGCGGCCGGGACTCGCACGGTGGTGGCGCGGCTGGATTGGAGAACGTACCGGCCACTATCACTGAC
ATCTTCCGCGCCAGCCAGGACACCCGTCCACCGCGCTGCACTGGCTGCTCCCTCTTCA
GCCAGACTCGAGTGCAGGAGAATTGGATCAGGCGTGGGAGGGACCGTCTGCTTGTATGGGTGACCAGCCC
AACCTGCCCTATGCTGGCCTTCCTTATGAAGCCATGCCCTCTCCAGTTGTGCTGTA
GCCACCACGTCCAACACCTCTGCTGGCTACCACATTCCAAGGACACTGTGGTTTGTC
GTGAATCATGACCCAGTGAAGTGGCTAACCGGAGAACTTGTGATCCAGCTGATTCTGGACAAGGATGGCCTC
ATCAACAAGGACCTGACCAGCAGAGTGTGATTTCAGTGGCAAAAGGCCGTCATTGGCAAGAACCTTCT
AAGATGCAGCTTTCTTCATCTCCATCCTGGCTCACCAGTGCATTCAGGGCAACCCAAATGAGCCTGCG
AAAATGAATTTCAGTTATGGCTAACCATAAACCCAGTCATTAAAGTC
GAGCTCCTGATAGTGTGCTCAAAATTACAAGCCAAGGAAACTTGC
TTTAGAAATATTACACATCTCGGAGATGAGGAGTAAATTCA
TCAATTAGCGTTAAGGTGAGCATAATCAACTGTCCATCAGGTGAGGTGTGCTCC
GAGTAGGGCTATGCAGGAGCTCTGGAGATT
TACATACTGCATCTGGTTATTCTGAAGGTAGCATTCTGGAGTAAATGCACATATAGACACATACACCA
AACACTACACCAAAACTACTGAATGAAGAAGTATTGGTAACCAGGCCATT
CTCCCATATGCAGAAATAGACAAAAGTATATTAAACAAAGTTCA
TAATTTCAGTGTAAAGTGTGATTGAAGGTGATAAGGGAAAAGATA
CAGGAAAATAACTTAGACTCTAGTATTATGGTGGATT
AGGATAAAATCATAAAAGTCAGTTGCTCAAAAGAAATCA
TATCATGAATTAAAGTATGCATT
GTACAGAATTGAAATTATCAGCAA
GATTCAGTAAGTCTCATAGGTAAAAAGTC
CAGTATATTAGTATTCTGGTCA
ACAACTAACGCAACCAAGTGTCT
AGGGTTCTTCTCACTCAA
TCTTTATTGAAATTCTATT
TCACTGGCATGCT
CTGAACATT
ACCTGGGATGTT
AGATGATT
TTGGAAAAGACAGTGGAGATGAGGT
GAGGTGAGTGT
TAAGATGGCAATT
CTGACATGGAAATGCCATGAATT
ACCTGGGATGTT
AGATGATT
TTGGAAAAGACAGTGGAGATGAGGT
GAGGTGAGTGT
TAAGATGGCAATT
ACTTGGT
AGCTGGGAAAGCATAA

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AGCTCAAATGAAATGTATGCATTACATTTAGAAAAGTGAATTGAAGTTCAAGTTAAAGTTCATTGCAATTAACTTCCAAAAGAAGTTCTACAGTGCCTAAGTCTAAGTCTTATTACATTTATTAGCTTTGGAAATCTTGTACCAAAATTAAAGGGAGTTTGATAGTTGTGTATGTGTGTGGGGTGGGGGATGGTAAGAGAAAGAGAGAAACACTGAAAAGAAGGAAAGATGGTAAACATTTCCCACTCATTCTGAATTAAATTAAATTGGAGCACAAATTCAAAGCATGGACATTTAGAAGAAGATGTTGGCGTAGCAGAGTTAACATCTCAAATAGGCTATTAAAAAAAGTCTACAACATAGCAGATCTGTTGTGGTTGAAATTAAAAAAACTCATGTAATTATTTATTAAAATTCATAGCTGACTTCTGAATATAAAAATCATGCCAGTATTAAAGGCATTAGAGTCACACAAAGCAGGCCATTGCCAGTACATTAAATTGGCACTTGCCATTCCAAAATATTATGCCCAAGGCTGAGACAGTGAATTGGGCTGCTGTAGCCTATTAGATTGAGAAATGTGTAGCTGCAAAAATAATCATGAACCAATCTGGATGCTCATTATGTCAACCAGGTCCAGATGTCTATAATCTGTTTACGTATGTAGGCCAGTCGTACAGATGCTTGCAGCAAAAGAAAGCTGTGTTATATGGAAGAAAGTAAGGTGCTGGAGTTACCTGGCTATTAAATATGCTTAACACTAGTTAAAGAAAGGAAAGAAAACAAAAACGAATGAAAATAACTGAATTGGAGGCTGGAGTAATCAGATTACTGCTTAATCAGAAACCTCATTGTGTTCTACCGGAGAGAGAATGTATTGCTGACAACCATTAAAGTCAGAGTTTACTCCAGGTATTGCAATAAAAGTATAATGTTATTAAATGCTCATTGTATGTCAAAGCTTGACTCTATAAGCAAATTGCTTTTCCAAAACAAAAAGATGTCCTCAGGTTGTTGTGAATTTCATAAAAGCTTCTGCCCCAGAACTTAGCCTTACCTGTGAAGTGTACTACAGCCTTAATATTCTAGTAGATCTATTAGATCAAAATAGTTGCATAGCAGTATATGTTAATTGTGTGTTTAGCTGTGACACAACACTGTGTGATTAAAGGTATACTTTAGTAGACATTATAACTCAAGGATACTTCTTATTAACTCTTCTATTGTTACTTATCATGAATGCTTTAGTGTGTGCATAATAGCTACAGTGCATAGTTGTAGACAAAGTACATTCTGGGAAACACATTATGTAGCTTATTACTGTTGATATACCAAAATTAAAAAAATTGTATCTCATTACTTATACTGGGACACCATTACCAAAATAATAAAATCACTTCTATACTGTAAAAAA

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FIGURE 510

MGTSLSPNDPWPLNPLSIQQTTLLLLSVLATHVGQRLLQRRRQLRSAPPFAWPLIGNAAAVGQAAHLSFA
RLARRYGDVFQIRLGSCPIVVLNGERAIIHQALVQQGSAFADRAFASFRVVSGGRSMAFGHYSEHWKVQRRAHS
MMRNFFTRQPRSRQVLEGHVLSEARELVALLVRGSADGAFLDPRPLTVVAVANVMSAVCFGCRYSHDDPEFRELL
SHNEEFGRVGAGSLVDVMPWLQYFPNPVRTVFREFEQLNRNFSNFILDKFLRHCESLRPGAAPRDMMDAFILSA
EKKAAGDSSHGGARLDLENVPATITDIFGASQDTLSTALQWLLLFTRYPDVQTRVQAELDQVVGDRRLPCMGDQ
PNLPYVLAFLYEAMRFSSFVPTIPHATTANTSVLGYHIPKDTVVFVNQWSVNHPVKWPNPENFDPARFLDKDG
LINKDLTSRVMIFSVGKRCIGEELSKMQLFLFISILAHQCDFRANPNEAKMNFSYGLTIKPKSFKVNVTLRES
MELLDLSAVQNLQAKETCQ

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FIGURE 511A

GCGACCGAGAAG**ATG**CCCGCCCTGCGCCCCGCTCTGCTGTGGGCCTGCTGGCCTCTGGCTGTGCTGCCGACCG
 CCCGCGCATGCATTGCACTGAGATGGCTATGAACCCCTGTGTAATGAAGGAATGTGTACCTACCAAAAT
 GGCACAGGATACTGCAAATGTCCAGAAGGCTTCTGGGGAAATTGTCACATCGAGACCCCTGTGAGAAGAAC
 CGCTGCCAGAATGGTGGACTTGTGCCCCAGGCCATGCTGGGGAAAGCCACGTGCCATGTGCCTCAGGGTT
 ACAGGAGAGGACTGCCAGTACTCGACATCTCATCCATGCTTGTCTGACCCCTGCCGAATGGCGCACATGC
 CATATGCTCAGCCGGATACCTATGAGTGCACCTGTCAAGTCGGTTACAGGTAAGGAGTCCAATGGACCGAT
 GCCTGCCCTGTCTCATCCCTGTGCAAATGGAAGTACCTGTACCACGTGGCAACCCAGTTCTCTGCCAAATGCC
 ACAGGCTTCACAGGGCAGAAATGTGAGACTGATGCAATGAGTGTGACATTCCAGGACACTGCCAGCATGGTGG
 ACCTGCCCTAACCTGCCCTGGTCTACAGTGCCTCAGGGCTCACAGGCCAGTACTGTGACAGCCTG
 TATGTGCCCTGTGACCCCTGCCCTGTGCAATGGAGGCACCTGTGCCAGACTGGTGACTIONTCACTTTGAGTGC
 AACTGCCCTCCAGGTTTGAAGGGAGCACCTGTGAGAGGAATATTGATGACTGCCCTAACACAGGTGTCAGAAT
 GGAGGGTTTGTGGATGGGTCACACTACAACAGGCCCTGTCCCCCACATGGACAGGACAGTTCTGCACA
 GAGGATGTGGATGAATGCCGCTGCAAGCCAATGCCGTCAAAATGGGGCACCTGTGCCAACCGCAATGGAGGC
 TATGGCTGTGATGTGCAACGGCTGGAGTGGAGATGACTGCAGTGAGAACATTGATGATTGTGCCCTGCC
 TGACTCCAGGCTCACCTGCATGACCGTGTGCCCTCTCTTGCAATGCCAGAGGGGAAGGCAGGTCTC
 CTGTGTCATCTGGATGATGCATGCATCAGCAATCCTGCCACAAGGGGCACTGTGACACCAACCCCTAAAT
 GGGCAATATATTGCAACCTGCCACAAGGCTACAAAGGGCTGACTGCACAGAACATGTGGATGAATGTGCC
 GCCAATAGCAATCCTGTGAGCATGCAGGAAAATGTGTAACACGGATGGGCCCTCACTGTGAGTGTCTGAAG
 GGTTATGCAGGACCTCGTGTGAGATGGACATCAATGAGTGCATTGACAGGCCATTGACAGGCCAGAATGATGCT
 ACTGTGTCATCTGGATGATGCATGCATCAGCAATCCTGCCACAAGGGGCACTGTGACACCAACCCCTAAAT
 GAATGTCAGAGCAACCTGTGTAACATGGCAGTGTGATAAAGTCAATGTTCCAGTGCCTGTGCT
 CCTGGTTCACTGGGCCAGTTGCCAGATTGATATTGATGACTGTTCCAGTACTCCGTGTCGAATGGGGCAAAAG
 TGTATCGATACCCGAATGGCTATGAATGCCAGTGTGTCAGGATGGTATTGATTCACACCTGCATCTGCAAT
 CCCGGTACATGGGCCATCTGCAGTGCAGGAGATTGATGAATGTTACAGCAGCCCTGCCGAACGATGGTC
 TGCATTGACCTGGCAATGGTACCACTGCAACTGCCAGGCACGTCAGGGTTAATTGAAATTAAATT
 GATGACTGTGCAAGTAACCCCTGTATCCATGGAACTGTGATGGATGGCATTAAATGCTACAGTGTCTGCTCA
 CCAGGATTACAGGGCAGAGATGTAACATTGACATTGATGAGTGTGCCACAGGTTCACTGGTGTGTTGAGGAAACATT
 TGTATCAACGGTGTGAATGGTTCCGCTGTATATGCCCGAGGGACCCATCACCCAGCTGCTACTCACAGGTG
 AACGAATGCCGAGCAATCCCTGCATCCATGGAAACTGTACTGGAGGTCTAGGGATATAAGTGTCTGTGAT
 GCAGGCTGGTTGGCATCAACTGTGAAGTGGACAAAATGAATGCCCTTCAATGCCAGAACGGTCAACA
 TGTGACAATCTGGTGAATGGATAACAGGTGTACTTGCAAGAAGGGTTAAAGGCTATAACTGCCAGGTGAATATT
 GATGAATGTGCCCAAATCCATGCCGAACCAAGGAACCTGCTTGATGACATAAGTGGCTACACTGCCACTGT
 GTGCTGCCATACACAGGCAAGAATTGTCAGACAGTATTGGCTCCCTGTCCTGGTGAAGTGTGCT
 GTTGCAAAAGAGTCACCAAATTGAGAGTTATACTGCTTGTGCTCTGGCTGGCAAGGTCAAGCAGGTGTA
 ATTGACATTGACGAGTGTATCTCAAGCCCTGCATGAACCATGGTCTGCCATAACACCCAGGGCAGCTACATG
 TGTGAATGTCCACCAAGGCTCAGTGGTATGGACTGTGAGGAGGACATTGATGACTGCCCTGCCAACTCTGCC
 AATGGAGGTTCTGTATGGATGGAGTGAATACTTCTCTGCCCTGCCCTGGGTTCACTGGGATAAGTGC
 CAGACAGACATGAATGAGTGTGAGTGAACCTGTAAGAATGGAGGGACCTGCTCTGACTACGTCAACAGTTAC
 ACTTGCAAGTGCCAGGAGGATTGATGGAGTCCATTGATGAGAACACATCAATGAGTGCAGTGAGAGCTCTGT
 TTCAATGGTGGCACATGTGTTGATGGGATTAACCTCTCTGCTTGTGCCCTGGGTTCACTGGATCTT
 TGCCCTCATGAGATCAATGAATGCAGCTCATGCCCTGCAATGAGGGAACGTGTGTTGATGCCCTGGTAC
 TACCGCTGCAGCTGCCCTGGCTACACTGGAAAAACTGTCAAGACCCCTGGTGAATCTCTGCAGTCGGCTCCA
 TGTAAAAACAAAGGTACTTGCCTCAGAAAAAGCAGAGTCCCAGTGCCTATGTCATCTGGATGGCTGGTG
 TATTGTGACGTGCCCAATGTCTTGTGACATAGCAGCCTCAGGAGAGGTGTGCTTGTGAAACACTTGTGCC
 CACTCAGGTGTGCATCAATGCTGGCAACACGCAATTACTGTCAGTGCCCCCTGGCTATACTGGAGGTACTGT
 GAGGAGCAACTCGATGAGTGTGCGTCCAACCCCTGCCAGCACGGGGCAACATGCAGTGACTTCATTGGTGG
 AGTACAGATGCGAGTGTGTCAGGGCTACAGGGTGTCAACTGTGAGTATGAAGTGGATGAGTGCAGAATGCC
 CAGGCC

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FIGURE 511B

CAGAATGGAGGCACCTGTATTGACCTTGTGAACCATTCAAGTGCTTGCCCCACCAGGCACTCGGGGCCTACTCTGTGAAGAGAACATTGATGACTGTGCCGGGGTCCCCATTGCCCTTAATGGTGGTCAGTGATGGATAGGATTGGA
GGCTACAGTTGTCGCTGCTTGCCTGGCTTGCTGGGAGCGTGTGAGGGAGACATCAACGAGTGCCTCTCCAAC
CCCTGCAGCTCTGAGGGCAGCCTGGACTGTATACTACAGCTACCAATGACTACCTGTGTGTTGCCGTAGGCCCTT
ACTGGCCGGCACTGTGAAACCTTCGTGATGTGTGCCCCAGATGCCCTGCCCTGAATGGAGGGACTTGTGCTGTG
GCCAGTAACATGCCCTGATGGTTCAATTGCCGTTGCCCCGGGATTTCGCCGGCAAGGTGCCAGAGCAGCTGT
GGACAAGTGAATGTAGGAAGGGGGAGCAGTGTGTCACACGCCCTGGACCCCCGCTGCTCTGCCCTCAGTCCC
CGGGACTGCGAGTCAGGCTGTGCCAGTAGCCCCGCCAGCACGGGGCAGCTGCCACCCCTCAGGCCAGCCTCCT
TATTACTCCTGCCAGTGTGCCACCATTCTCGGGTAGCCGCTGTGAACTCTACACGGCACCCCCCAGCACCCCT
CCTGCCACCTGTCTGAGCCAGTATTGTGCCGACAAAGCTCGGGATGGCGTCTGTGATGAGGCCCTGCAACAGCCAT
GCCGCCAGTGGATGGGGTGACTIONTCTCACCATGGAGAACCCCTGGCCAACGTGCTCTCCCCACTTCCC
TGCTGGGATTATATCAACAACCAGTGTGATGAGCTGCAACACGGTCGAGTGCTGTTGACAACATTGAAATGC
CAGGGGAACAGCAAGACATGCAAGTATGACAATACTGTGCAAGCACCCTCAAAGACAACCAGTGTGACCAGGGG
TGCAACAGTGAGGAGTGTGGTTGGGATGGGCTGGACTGTGCTGCTGACCAACCTGAGAACCTGGCAGAAGGTAC
CTGGTTATTGTGGTATTGATGCCACCTGCGCATTAAGCGGGACTCCAGGGGAACCTCATGGTGTACCCCTATTATGGTGAGAAG
TCAGCTGCTATGAAGAACAGAGGATGACACGCAAGTCCCTGGTGAACAAGAACAGGAGTGGCTGGCTCT
AAAGTCTTCTGGAAATTGACAACGCCAGTGTGTTCAAGACTCAGACCCTGCTCAAGAACACGGATGCGACA
GCAGCTCCTGCCCTCACGCCATACAGGGGACCCCTGTACACCCCTTGTGCTGTCAGTGAATCCCTG
ACTCCAGAACGCACTCAGCTCCTCTATCTCCTGCTGTTGCTGTCATCATTCTGTTATTATTCTGCTGGGG
GTAATCATGGCAAAACGAAAGCGTAAGCATGGCTCTCTGGCTGCCTGAAGGTTCACTCTGCCAGATGCA
AGCAATACAAGCGCTGTGAGCCAGTGGACAGGATGCTGIGGGCTGAAAAACTCTCAGTGCAAGTCTCAGAA
GCTAACCTAATTGGTACTGGAACAAGTGAACACTGGGCTGATGATGAAGGGCCCCAGCCAAGAACAGTAAAGGCT
GAAGATGAGGCCTACTCTCAGAAGAAGATGACCCATTGATCGACGCCATGGACACAGCAGCACCTGAAGCT
GCAGACATCCGTAGGACACCACCGCTGGCTCTCACCCCTCCTCAGGCAAGCAGCAGGAGGTGGATGTTAGATGTG
AATGTCCGTGGCCCAGATGGCTGCACCCATTGATGTTGGCTCTCCGAGGAGGGCAGCTCAGATTGAGTGAT
GAAGATGAAGATGCAGAGGACTCTCTGCTAACATCATCACAGACTGGTCTACAGGGTGCCAGCCTCCAGGCC
CAGACAGACGGACTGGTGAGATGCCCTGCACCTTGCAAGCCGCTACTCACGGCTGATGCTGCCAGCCTGCTC
CTGGATGCAGGTGCAGATGCCAATGCCAGGACAACATGGCCGCTGTCCACTCCATGCTGAGTGGCAGCTGAT
GCCCAAGGTGTCTCCAGATTCTGATTGCAACCGAGTAACGATCTAGATGCCAGGATGAATGATGGTACTACA
CCCCCTGATCCTGGCTGCCCGCTGGCTGGAGGGAAATGGTGGCAGAACTGATCAACTGCCAAGCGGATGTGAAT
GCAGTGGATGACCATGGAAAATCTGCTTCACTGGCAGCTGCTGCAATAATGTTGAGGCAACTCTTGTG
TTGAAAAATGGGCCAACCGAGACATGCAGGACAACAAGGAAGAGACACCTCTGTTCTGCTGCCGGAGGG
AGCTATGAAGCAGCCAAGATCCTGTTAGACCATTGCAATCGAGACATCACAGACCATATGGATCGCTTCCC
CGGGATGTGGCTGGGATCACATGCACCATGACATTGTGCGCCTCTGGATGAATACAATGTGACCCCAAGGCC
CCAGGCACCGTGTGACTCTGCTCTCACCTGTCATCTGTTGGCCAAACAGATCTTCCAGCCTGAAGCAC
ACCCCAATGGCAAGAACAGTCTAGACGCCAGTGCCAAGAGTACCATGCCACTAGCCTCCCTAACCTGCCAAG
GAGGCAAAGGATGCCAAGGGTAGTAGGAGGAAGAACAGTCTGAGTGAGAACAGTCCAACTGCTGAGAGGTCAGTA
ACTTTATCCCCTGTTGATTCCCTAGAACATCTCTCACACGTATGTTCCGACACCACATCTCCATGAAATGAT
TCCCCTGGATCTTACAGGCCCTACCCAAACCTATGTTGGCCACTGCCGCCCTCTGCCAGTCCATGCCAG
CATGCACTATCTTCTAACCTCATGAAATGCAAGCTTGGCACATGGGCCAGCACTGCTGCTCCCTCAGTG
AGCCAGTTGCTATCCCACCACATTGTGCTCCAGGCAGTGGCAGTGCTGGAAGCTGAGTAGGCTCCATCCA
GTCCCAGTCCCAGCAGATTGGATGAACCGCATGGAGGTGAATGAGACCCAGTACAATGAGATGTTGGATGGTC
CTGGCTCCAGCTGAGGGCACCCATCTGGCATAGCTCCCCAGAGCAGGCCACCTGAAGGGAAAGCACATAACCACC
CCTCGGGAGGCCCTGGCCCCATTGTGACTTCCAGCTCATCCCTAAAGGCAGTATTGCCAACCCAGCGGGGGCT
CCCCAGCCTCAGTCCACCTGCCCTCCAGCTGTTGCCGGGCCCCCTGCCACCATGATCCAGAACATGGCC
CGTTTGCCAGTGTGGCTTCCCCACTGCCATGATGCCCAAGCAGGACGGCAGGTAGCTCAGACCATTCTCCCA
GCCATCATCCTTCCCAGCCTCTGTGGCAAGTACCCACACCCCTCACAGCACAGTTATGCTTCCCAAAT

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FIGURE 511C

GCTGCTGAGCGAACACCCAGTCACAGTGGCACCTCCAGGGTAGCATCCCTACCTGACACCATCCCCAGAGTCT
 CCTGACCACTGGTCAAGTTCATCACCCACTCTGCTTCTGACTGGTCAGATGTGACCACAGCCCTACCCCTGGG
 GGTGCTGGAGGAGGTAGCAGCGGGACCTGGACACACATGTCAGGCCACACACAACATGCAGGTTATGCG
 TGAGAGAGTCCACCTCCAGTGTAGAGACATAACTGACTTTGAAATGCTGCTGAGGAACAAATGAAGGTATCC
 GGGAGAGAATGAAGAAATCTGGAGCCAGCTTAGAGGTAGGAAAGAGAAGATGTTCTATTCAAGATAATGC
 AAGAGAAGCAATTGTCAGTTCACTGGGTATCTGCAAGGCTTATTGATTATTCTAATCTAATAAGACAAGTTG
 TGGAAATGCAAGATGAATAACAAGCCTGGGTCCATGTTACTCTCTTATTTGAGAATAAGATGGATGCTTAT
 TGAAGCCCAGACATTCTGAGCTGGACTGCATTTAACGCCCTGCAGGCTCTGCCATATCCATGAGAAGATT
 TACACTAGCGTCTGTTGGAAATTATGCCCTGGAATTCTGCTGAATTGACCTACGCATCTCCCTCCTGGAC
 ATTCTTGCTTCATTGGCTTGGCTTGCACCTCTCCGTGATTGTAGCCCTACCAGCATGTTATAGGGC
 AAGACCTTGTGCTTTGATCATTCTGCCCATGAAAGCAACTTGGCTCCTTCCCCTCTGTCTTCCCCTGA
 TCCCTGGAGTCACAAGGTTACTTGGTATGGTCTCAGCACAAACCTTCAGTATGTTGTTCTGGAA
 AATGGACATACTGTATTGTGTTCTCCTGCATATATCATTCTGGAGAGAGAAGGGGAGAAGAAATACTTTCTTCA
 ACAAAATTGGGGCAGGAGATCCCTCAAGAGGCTGCACCTTAATTTCCTGCTGTCAGTAAAGTTTATCCT
 AAACATTACCAAGGAAGAGGTGTGAGTTGTTCTGTGATGGCCCTGGTCAGTGTAAAGTTTATCCT
 TGATAGCTAGTTACTATGACCCCTCCCACCTTTAAAACCAGAAAAAGGTTGGAATGTTGGAATGACCAAGA
 GACAAGTTAACCTCGTCAAGAGCCAGTTACCCACCCACAGGTCCCCCTACTCCCTGCCAACGATTCCATTGACTG
 CCTGTATGGAACACATTGTCCTCAGACTGAGCATTCTAGGCCTGTTCACTCACTCACCCAGCATATGAAACTA
 GTCTTAACGTGAGCCTTCTTCATATCCACAGAACACTGTCCTCAAATGTTGACCCCTGCCATTAGGA
 CTGAACCTTCCTAGCCAAGGGACCCAGTGACAGTTGCTCCGTTGTCAGATGATCAGTCTACTGATTAT
 CTTGCTGCTTAAAGGCTGCTCACCAATCTTCTTCACACCCTGTCAGGTTACTGGTATACCCAGTATGT
 TCTCACTGAAGACATGGACTTATATGTTCAAGTGCAGGAATTGAAAGTTGACTTGTGTTCTATGATCCAAA
 CAGCCCTATAAGAAGGTTGAAAAGGAGGAACTATATGAGCAGCCTTGCTATTTCCTGCTACCATTCTTCCCT
 CTGAAGCGGCCATGACATTCCCTTGGCAACTAACGTAGAAACTCAACAGAACATTTCCTTCTAGAGTCACC
 TTTAGATGATAATGGACAACATAGACTGCTCATTGTCAGACTGATTGCCCTCACCTGAATCCACTCTG
 TATTGATGCTTGGCAATTCTTGTACTTTCTTAAGGGCAGAACGATTTAGTTAATTGAGATAAGAATA
 GTTTCTCCTCTCTGGCCAGTTAATAATTGGCCATGGCTACACTGCAACTCCGTCAGTGTGTA
 TGCCCATGACACCTGCAAAATAAGTTCTGCTGGCATTGTCAGTACGTTACCTGATTGCTGTT
 GTTGAATGACAGTTCTCATTCTCTATGGCTGCAAGTATGATCAGTCTCCACTACCTGATTGCTG
 CGGTGGCCCATATGGAAACCTGCGTGTCTGTTGCATAATAGTTACAAATGTTTCTAGTCCTATCCAAA
 TTATGAAACCAACAAAAATAATTACTCTGCCCTGAGATAAGCAGATTAAGTTGTCATTCTGCTTATTC
 TCTCATGTGGCAACATTCTGTCAGCCCTTTCTAGTGTGCAAACATTATCATTCTAAATGGTACTCTG
 CCCTGGACCCATTATTACAGATGGGAGAACCTATCTGCATGGACCTCTGTCAGGACACAGCTACCTGC
 CCCTTCTGCCCTCTGCTCCAGCCCACCTCTGAAAGTATCAGCTACTGATCCAGCACTGGATATTATATC
 CTCCCTTCTTAAGCACAATGTCAGACAAATTGCTGTTCTTCTGGACTACTTAATTGGATCCTT
 TGGGTTGGAGAAAGGAATGTAAGACTGTCATTACAGACAACAGGTTCACTGATGAGGAGAACACTGCC
 TTCAAAACTTTACTGATCTCTAGTTAAGAAACTCTGAAATTGTCAGTGTGGTATCTAATAAAAGGGAGGTAAG
 ATGGATAATCACTTCTCATTGGGTTCTGAAATTGGAGACTCAGTTTATGAGACACATCTTATGCCATGTA
 TAGATCCTCCCTGCTATTGGTTATTGTTAATTGCTTCTTCTGACTCCTCTGCTG
 CCTTGGGGATAGGTTTTGTTATTGCTTCTGTTTAAGCATATTCTTATGTGAGG
 TGGGGAGGGAAAGGTATGAGGGAAAGAGAGTCTGAGAATTAAATTTAGTATAAGCAATTGGCTGATG
 TCAAATCCATTGATCCTCTATTGAAATTGCAATTGTAATTGTCATAATAAGAACCAAAGGTGTAATGT
 TTGTTGAGAGGTGGTTAGGGATTGGCCCTAACCAATACATTGAAATGATGACTATTGGGAGGACACA
 TTATGTAACCCAGAGGCCCACTAACATAAGTGGTACTATGGTACTCTGTCATTTCTTAAAGGTGAT
 ATTATATCTGTTGATGAGAAACCCAGTAACCAATAAAATGACCGCATATTCTGACTAACGTAGTAAGGAAA
 ATGCACACTTGTGTTACTTCCGTTCAATTCTAAAGGTAGTTAAGATGAAATTATGAAAGCATTGTTAT
 CACAAAATAAAAAGGTTGCCAAGCTCAGTGGTGTGTTATTCTTCAACTGATCCATGCCCTGGC
 AGTGTACCTCATGATGTCATAATTGCTGAGAGAGCAAATTCTTCTGAATCCCACAAAGCCTAGCA

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FIGURE 511D

CCAAACTTCTTTTCTTCCTTAATTAGATCATAAATAAATGATCCTGGGAAAAAGCATCTGTCAAATAGGA
AACATCACAAAATGAGCACTCTCTGCAGCTGCCATAGCTGGTGACAAACAGATGGTTGCTCAGGGACAAGG
TGCCTCCAATGAAATGCGAAGTAGTTGCTATAGCAAGAATTGGGAACGGGATATAAGTCATAATATTAATTA
TGCTGTTATGAAATGATTGGTTGTAACATTCTTAAGTCAAATTGTTAGAAGTAAATACAGGATTATAA
AATAATATTTGTGTATAAATTGTTATAAGTTCACATTTCATACATTATAAAAGTCAGTGAGATATTGAA
CATGAAAAAA

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FIGURE 512

MPALRPALLWALLALWLCCATPAHALQCRDGYEPCVNEGMCVTYHNGTGYCKCPEGFLGEYCQHRDPEKNRCQNMGTCAQAMLGKATCRCASGFTGEDCQYSTSHPCFVSRPCLNGGTCHMLSRDTYECTCQVGF TGKECQWTDA CLS HPCANGSTCTTVANQFSCKCLTGFTGQKCETDVNECDIPGHQCQHGTCLNLPGSYQCQCLQGFTGQYCDSLYVPC APSPCVNGGTCRQTGDFTECNCLPGFEGSTCERNIDDCPNHRCQNGGVCDGVNTYNCRCPPQWTGQFCTEDVD ECLLQPNAQCQNGGTCAANRNGGYGCVCVNGWSGDDCSENIDDCAFASCTPGSTCIDRVASFSCMCPEGKAGLLCHL DDACISNPCHKGALCDTNPLNGQYICTCPQGYKGADCTEDVDECAMANSNPCEHAGKCVNDGAFHCECLKGYAG PRCEMDINECHSDPCQNDATCLDKIGGFTCLCMPGFKGVHCELEINECQSNCVNNGQCVDKVNRFQCLCPPGFT GPVCQIDIDDCSSTPCLNAGAKCIDHPNGYECQCAGTGTGVILEENIDNCDPDPCHHGQCQDGIDSYTCTCNP GYGAICSDQIDE CYSSPCLN DGR CIDL VNGYQCNCQPGTSGVNCEINFDDCASN P C I H G I C M D G I N R Y S C V C S P G F T G Q R C N I D I D E C A S N P C R K G A T C I N G V N G F R C I C P E G P H P S C Y S Q V N E C L S N P C I H G N C T G G L S G Y K C L C D A G W V G I N C E V D K N E C L S N P C Q N G G T C D N L V N G Y R C T K K G F K G Y N C Q V N I D E C A S N P C L N Q G T C F D D I S G Y T C H C V L P Y T G K N C Q T V L A P C S P N P C E N A A V C K E S P N F E S Y T C L C A P G W Q G Q R C T I D I D E C I S K P C M N H G L C H N T Q G S Y M C E C P P G F S G M D C E E D I D D C L A N P C Q N G G S C M D G V N T F S C L C L P G F T G D K C Q T D M N E C L S E P C K N G G T C S D Y V N S Y T C K C Q A G F D G V H C E N N I N E C T E S S C F N G G T C V D G I N S F S C L C P V G F T G S F C L H E I N E C S S H P C L N E G T C V D G L G T Y R C S C P L G Y T G K N C Q T L V N L C S R S P C K N K G T C V Q K K A E S Q C L C P S G W A G A Y C D V P N V S C D I A A S R R G V I V E H L C Q H S G V C I N A G N T H Y C Q C P L G Y T G S Y C E E Q L D E C A S N P C Q H G A T C S D F I G G Y R C E C V P G Y Q G V N C E Y E V D E C Q N Q P C Q N G G T C I D L V N H F K C S C P P G T R G L L C E E N I D D C A R G P H C L N G G Q C M D R I G G Y S C R C L P G F A G E R C E G D I N E C L S N P C S S E G S L D C I Q L T N D Y L C V C R S A F T G R H C E T F V D V C P Q M P C L N G G T C A V A S N M P D G F I C R C P P G F S G A R C Q S S C G Q V K C R K G E Q C V H T A S G P R C F C P S P R D C E S G C A S S P C Q H G G S C H P Q R Q P P Y Y S C Q C A P P F S G S R C E L Y T A P P S T P P A T C L S Q Y C A D K A R D G V C D E A C N S H A C Q W D G G D C S L T M E N P W A N C S S P L P C W D Y I N N Q C D E L C N T V E C L F D N F E C Q G N S K T C K Y D K Y C A D H F K D N H C D Q G C N S E E C G W D G L D C A A D Q P E N L A E G T L V I V V L M P E Q L L Q D A R S F L R A L G T L L H T N L R I K R D S Q G E L M V P Y Y G E K S A A M K K Q R M T R R S L P G E Q E Q E V A G S K V F L E I D N R Q C V Q D S D H C F K N T D A A A A L L A S H A I Q G T L S Y P L V S V V S E S L T P E R T Q L L Y L L A V A V V I I L F I I L L G V I M A K R K R K H G S I W L P E G F T L R R D A S N H K R R E P V G Q D A V G L K N L S V Q V S E A N L I G T G T S E H W V D D E G P Q P K K V K A E D E A L L S E E D D P I D R R P W T Q Q H L E A A D I R R T P S L A L T P P Q A E Q E V D V L D V N V R G P D G C T P L M I A S L R G G S S D L S D E D E D A E D S S A N I I T D L V Y Q G A S L Q A Q T D R T G E M A L H A A R Y S R A D A K R L L D A G A D A N A Q D N M G R C P L H A A V A A D A Q G V F Q I L I R N R V T D L D A R M N D G T T P L I L A A R L A V E G M V A E L I N C Q A D V N A V D D H G K S A L H W A A V V N V E A T L L L K N G

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FIGURE 513

GAAACAAGCACTGGATTCCATATCCACTGCCAAAACCGCATGGTCAGATTATCGTATTGCAGCTTCATCAT
AATAACACACCTTGCTGCCGAAACGAAGCCAGACAACAGATTCCATCAGCAGGAATGTGGGGCTCAAGGTTCTG
CTGCTACCTGTGGTGAGCTTGCTCTGTACCCCTGAGGAGATACTGGACACCCACTGGGAGCTATGGAAGAAGACC
CACAGGAAGCAATATAACAACAAGGTGGATGAAATCTCTGGCGTTAATTGGGAAAAAAACCTGAAGTATATT
TCCATCCATAACCTTGAGGCTCTTGTCCATACATATGAACGGCTATGAACCACCTGGGGACATGACC
AGTGAAGAGGTGGTCAGAAGATGACTGGACTCAAAGTACCCCTGTCATTCCCGAGTAATGACACCCTTAT
ATCCCAGAATGGGAAGGTAGAGCCCCAGACTCTGCGACTATCGAAAGAAAGGATATGTTACTCCTGTCAAAAAT
CAGGGTCAGTGTGGTCTGGCTTTAGCTCTGTGGGTGCCCTGGAGGGCAACTCAAGAAGAAAATGGC
AAACTCTTAAATCTGAGTCCCCAGAACCTAGTGGATTGTGTCTGAGAATGATGGCTGTGGAGGGGCTACATG
ACCAATGCCTCCAATATGTGAGAACCGGGTATTGACTCTGAAGATGCCTACCCATATGTGGGACAGGAA
GAGAGTTGTATGTACAACCCAACAGGCAGCTAAATGCAGAGGTACAGAGAGATCCCCGAGGGAAATGAG
AAAGCCCTGAAGAGGGCAGTGGCCCGAGTGGGACCTGTCTGTGGCATTGATGCAAGCCTGACCTCCTCCAG
TTTACAGCAAAGGTGTATTATGATGAAAGCTGCAATAGCATAATCTGAACCATGCGGTTTGGCAGTGGGA
TATGGAATCCAGAAGGGAAACAAGCAGTGGATAATTAAAAACAGCTGGGAGAAAATGGGAAACAAAGGATAT
ATCCTCATGGCTCGAAATAAGAACACGCCCTGTGGCATTGCCAACCTGGCAGCTCCCCAAGATGTGACTCCAG
CCAGCCAAATCCATCCTGCTTCCATTCTCCACGATGGCAGTGTAAACGATGCACTTGGAAAGGGAGTTGG
TGTGCTATTTGAAGCAGATGTGGTGATACTGAGATTGTCAGTTCCCATTTGTTGTGCTCAAATG
ATCCTCCTACTTGTCTCTCCACCCATGACCTTTCACTGTGGCCATCAGGACTTCCCTGACAGCTGTGT
ACTCTTAGGCTAAGAGATGTGACTACAGCCTGCCCTGACTGTGTTGCCAGGGCTGATGCTGTACAGGTACAG
GCTGGAGATTTCACATAGGTTAGATTCTCATTCACGGGACTAGTTAGCTTAAAGCACCCTAGAGGACTAGGGTA
ATCTGACTTCACTTCTAAGTCCCTCTATATCCTCAAGGTAGAAATGTCTATGTTCTACTCCAATTCA
AAATCTATTCTAAGTCTTGGTACAAGTTACATGATAAAAAGAAATGTGATTGTCTTCCCTTTGCACCT
TTGAAATAAGTATTATC

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FIGURE 514

MWGLKVILLPVVSFALYPEEILDTHWELKKTHRQYNNKVDEISRRIWEKNKYISIHNLEASLGVHTYELAM
NHLDGDMTSEEVVQKMTGLKVPLSHRSNDTLYIPEWEGRAPDSVDYRKKGYVTPVKNQGQCGSCWAFSSVGAELEG
QLKKKTGKLLNLSPQNLVDCVSENDGCCGGYMTNAFQYVQKNRGIDSEDAYPYVGQEESCMYNPTGKAACRGYR
EIPEGNEKALKRAVARVGPVSVAIDASLTSFQFYSKGVYYDESCNSDNLNAVLAVGYGIQKGNKHWIIKNSWGE
NWGNKGYILMARNKNNACGIANLASFPKM

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FIGURE 515

GCGCCGCGGGCGGGAGTCCCCGTCGGGGATAGACCGAGGGCC**AT**GGCGCCTCTCCGGACCCGCCGGCGTTGG
CGGCGCCGGAGCAGTCTACGGCTCCGGCTTCGGGCTTCGCCCTCGACTCGGGACTGGAGATCAAAACTCGCTC
GGTGGAGCAGACGCTACTCCCGCTGGTTCTCAGATCACACAGCTTATTATCATAAAGATAATACAAAAAGTC
TGATAAAAATCTGCAAGCAATTAGCGTAGGACAAGCTGTCAACTTGGCAGTTGAAGAGATTGTTAAAGTAGG
AGAAGCTATAGCCAATGAAAATGGGATTGAAAGAAGAAATAATTGCTTGATTGAAGCTAAACAAGCAGG
AGAAACAATTGCAGCACTTACAGACATAACCAACTGAACCCTGGAATCTGATGGGCAGATCACAACTTTAC
AGACAAAACAGGAGTGTAAAGGCTGCAAGATTACTTCTTCAGTGACAAAAGTGTGTTGCTGGCAGACCG
AGTAGTCATTAACAGATAATAACATCAAGAAATAAGGTTCTCGCAACTATGGAAAGACTAGAGAAAGTGAATAG
CTTCAAGAGTTGCAAATATTAGCAATTGGAAATGAAATGGGAGTTGCACATCTGAGTGGAGATAG
ACAAAATGATTGAAAGATGAAAAGAAAAGGCAAAATGGCAGCAGCTAGGGCAGTTCTGAAAAGTGTACAAT
GATGCTTCTCACAGCTTCAAAGACATGTCTGAGGCATCCTAACAGCAATCAGCCCATAAAACAAAGAAGGAGT
ATTTGACCGTATGAAAGTGGCATTGGATAAGGTCAATTGAAATTGTGACTGACTGTAAACCGAATGGAGAGACTGA
CATTTCATCTATCAGTATTTTACTGGAATTAGGAATTCAAGATGAATATTGAAGCTCTCGGGAGAATCTTTA
TTTCAGTCAAAGAGAACCTTCTGTGACATTGGAAGTCATCTGGAGCGTATGGAGGACTTTACTGATTCTGC
CTACACCAGCCATGAGCACAGAACGCATCTGGAACGTCAACTCAGCGAGAATGGAACCTGCAGCAGTTAAT
TTCTGTGTTCAAGCTCAAAGCAAGAAAACAAAAGCATCGCTGAAGAACCTGAGTATTGAAAAT
CAGTCACAGTCTTAATGAACCTTAAAGAAGAACTTCATAGTACAGCGACACAGCTGGCAGCAGATCTATTAAAATA
CCATGCTGATCATGTGGTTCTAAAGCATTAAACTTACTGGAGTAGAAGGAAATTAGAAGCTTGGCTGAATA
TGCCTGTAAACTCTCTGAACAGAAAGAGCAGCTGTTGAGACCTGTCGATTGTTACGACACATATCTGGGACAGA
ACCTCTGGAATAACCTGTATACATGCAAGAGGAGACATTCAAGCTGACTGGCAACAGATAATTCTGCTGCTGA
AACATTGACATTGCATCCATCTAGTAAAGAAAACCTAGATGTATTGTAAGCTGGGAAATCCCA
ATTAGTGCACATGTCAACACTGCTGAGAGAAATCAATGACGTGTTGAAGGAAGACGAGGAGAGAAGTATGGCTA
CCTTCACCTCAAAGCCAATGAAGAATAATGCAAACCTGAAATCTAAAGCCAGACAAGCCTGACTCTGAGGA
GCAAGCCAAGATAGCAAAGCTGGACTTAAGCTGGGTTGCTCACCTGACGCTGACTGCGAAATTGAGAAGTG
GGAAGATCAGGAGAATGAGATTGTTCAATATGGACGGAACATGTCCAGTATGGCTTATTCTGTATTATTAC
TAGAGGAGAGGGCCACTGAAAACCTCCAGGATTTAACATCAACTAGAGGTTTGCTGCAGAGGTTAAA
GCTTACTTCCAGTGTCAAGCTTTCAAAACAGCTGAAAGACGATGACAAGCTTATGCTTCTCTGGAAATAAA
CAAGCTAATTCTCTATGCCACCGAGCTCCAGACAGTAACTAAGACTTCTTGAGAATAAGTATTCTAAAGGT
TGACAAGTGTATTAGAAGACAAGATCCATGATGGCTCTCTAGTCCAACCTCTTCACTTGTATAACTGCT
GAAGAAGCTTCAGATGGAAAATAACGGATGGTCTCAGTTACAAATAAGGACACTATGGATAGTAAAAC**TGAGA**
AGCTTTGGGGTCAGATCTGGAACATCATGTGATGAAGCTGACATTAAAATCAAATGATCCTTATCTT
TTCAGAAATTCAATTATAAGAAAACAATTGAAATTGCTCTATTCTGATCATGAAACTGATTGT
AAAGCTTTGACAACATAAAATGTCTGGTAATTGCTAGATTCT

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FIGURE 516

MAASPGPAGVGGAGAVYGS GSSGFALDSGLEIKTRSVEQTILLPLVSQITTLINHDNTKSDKTLQAIQRVGQAV
NLAVGRFVKVGEAIANENWDLKEEINIACIEAKQAGETIAALTDITNLNHLESDGQITIFTDKTGVKAARLLS
SVTKVLLLADRVVIKQIITSRNKVLATMERLEKVNSFQEJVQIFSQFGNEMVEFAHLSGDRQNDLKDEKKKAKMA
AARAVLEKCTMMLLTASKTCLRHPNCESAHKNKEGVFDRMKVALDKVIEIVTDCKPNGETDISSISIFTGIKEFK
MNIEALRENL FQSKENL SVTLEVILERMEDFTDSAYTSHEHRERILELSTQARMELQQLISVWIQAQSKKT KSI
AEELELSILKISHSLNELKELHSTATQLAADLLKYHADHVVVLKALKLTGVEGNLEALAEYACKLSEQKEQLVET
CRLLRHISGTEPLEITCIHAEETFQVTGQQIIISAAETTLHPSSKIAKENLDVFCEAWESQISDMSTLLREINDV
FEGRRGEKYGYLSPKPMKNANLKS LKPDKPDSEEQAKIAKLGLKLGLLTSDADCEIEKWEDQENEIVQYGRNM
SSMAYSILYLFTRGEGPLKTSQDLIHQLEVFAAEGLKLTSSVQAFSKQLKDDDKLMLL EINKLIPLCHQLQTVTK
TSLQNKVFLKVDKCITKTRSMALLVQLLSLCYKLLKKLQMENNGWVSVNKDTMDSKT